***** INVENTOR RESULTS *****

=> d his 134

FILE 'HCAPLUS' ENTERED AT 09:44:39 ON 19 JUL 2007)
L34 5 S L33 NOT L1

=> d que 134

L1	1	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	US20060240095/PN
L30	187	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	JUNIEN J?/AU
L31	95	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	JUNIEN JEAN LOUIS/AU
L32	295	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	EDGAR A?/AU
L33	6	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L32 AND ((L30 OR L31))
L34	5	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L33 NOT L1

=> d hisl145

YOU HAVE REQUESTED DATA FROM FILE 'MEDLINE, BIOSIS, EMBASE, DRUGU, BIOTECHNO, PASCAL' - CONTINUE? (Y)/N:n

=> d his 145

(FILE 'WPIX' ENTERED AT 09:51:45 ON 19 JUL 2007) L45 6 S L43 NOT L1

=> d que 145

L1	1	SEA	FILE=HCAPLUS ABB=ON PLU=ON US20060240095/PN
L30	187	SEA	FILE=HCAPLUS ABB=ON PLU=ON JUNIEN J?/AU
L31	95	SEA	FILE=HCAPLUS ABB=ON PLU=ON JUNIEN JEAN LOUIS/AU
L41	35	SEA	FILE=WPIX ABB=ON PLU=ON (L30 OR L31)
L42	105	SEA	FILE=WPIX ABB=ON PLU=ON EDGAR A?/AU
L43	.7	SEA	FILE=WPIX ABB=ON PLU=ON L41 AND L42
L45	6	SEA	FILE=WPIX ABB=ON PLU=ON L43 NOT L1

=> d his 160

(FILE 'MEDLINE, BIOSIS, EMBASE, DRUGU, BIOTECHNO, PASCAL, CONFSCI' ENTERED AT 09:56:47 ON 19 JUL 2007)

L60 17 S L59 AND L24

SAVE L60 TEMP KUD523MULTIN/A

FILE 'STNGUIDE' ENTERED AT 10:25:38 ON 19 JUL 2007

•		
=> d que 160		
L15	QUE ABB=ON PLU=ON STATIN	
L16	QUE ABB=ON PLU=ON METFORMIN	
L17	QUE ABB=ON PLU=ON HYPERGLYCEMI? OR DIABETE# METILLUS	
L18	QUE ABB=ON PLU=ON HYPERGLYCEMI? (2A) AGENT#	
L19	QUE ABB=ON PLU=ON DIABET? (2A) (TYPE 2 OR TYPE II OR T	1
	YPE TWO)	
L24	QUE ABB=ON PLU=ON AY<2003 OR PY<2003 OR PRY<2003 OR MY	•
	<2003 OR REVIEW/DT	
L30 187	SEA FILE=HCAPLUS ABB=ON PLU=ON JUNIEN J?/AU	
L31 · 95	SEA FILE=HCAPLUS ABB=ON PLU=ON JUNIEN JEAN LOUIS/AU	
L32 295	SEA FILE=HCAPLUS ABB=ON PLU=ON EDGAR A?/AU	
L35 45	SEA FILE=WPIX ABB=ON PLU=ON L15 AND L16	
L36 6049	SEA FILE=WPIX ABB=ON PLU=ON (L17 OR L18 OR L19)	
L41 35	S SEA FILE=WPIX ABB=ON PLU=ON (L30 OR L31)	
L55 719	SEA L41	

=> dup rem 134 145 160

FILE 'HCAPLUS' ENTERED AT 10:29:00 ON 19 JUL 2007

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'PASCAL' ENTERED AT 10:29:00 ON 19 JUL 2007

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PROCESSING COMPLETED FOR L34
PROCESSING COMPLETED FOR L45
PROCESSING COMPLETED FOR L60
L61 12 DUP REM L34 L45 L60 (16 DUPLICATES REMOVED)
ANSWERS '1-5' FROM FILE HCAPLUS

ANSWER '6' FROM FILE WPIX ANSWERS '7-9' FROM FILE MEDLINE ANSWERS '10-12' FROM FILE BIOSIS

=> d 1-12 ibib ab 1-12

L61 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2006:91402 HCAPLUS Full-text

DOCUMENT NUMBER: 144:156789

TITLE: Pharmaceutical combinations containing an inhibitor of

platelet aggregation and a fibrate

INVENTOR(S): Edgar, Alan; Junien, Jean-Louis;

Wilkins, Michael

PATENT ASSIGNEE(S): Fournier Laboratories Ireland Limited, Ire.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                        KIND
                               DATE:
                                           APPLICATION NO.
                                                                  DATE
                                           ______
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                                           EP 2004-291896
    EP 1621200
                         A1
                                20060201
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    AU 2005266310
                         A1
                                20060202
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                         A1
                                           CA 2005-2574920
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    CA 2574920
                                20060202
    WO 2006010748
                                20060202
                                           WO 2005-EP53603
                                                                   20050725
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             NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
             SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
             ZA, ZM, ZW
        RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
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    EP 1778247
                               20070502
                                           EP 2005-769894
                          A1
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                               20070627 CN 2005-80025353
                                                                   20050725
PRIORITY APPLN. INFO.:
                                           EP 2004-291896 ·
                                                               A 20040726
                                           WO 2005-EP53603
                                                               W 20050725
```

AB The present invention relates to a novel pharmaceutical combination, containing an inhibitor of platelet aggregation and a fibrate, where the inhibitor of platelet aggregation is preferably either aspirin or clopidogrel. Such a pharmaceutical combination of an inhibitor of platelet aggregation and a fibrate is expected to be useful in the treatment and/or prevention of myocardial infarction (heart attack), cardiac arrest, peripheral vascular disease (including symptomatic carotid artery disease), congestive heart failure, ischemic heart disease, angina pectoris (including unstable angina), sudden cardiac death, unstable angina, as well as cerebrovascular events such as cerebral infarction, cerebral thrombosis, cerebral ischemia and transient ischemic attack, disorders related to bypass operations (angioplasty), fitting of endovascular prostheses and restenosis, and inflammatory disorders, including arthritic conditions such as rheumatoid arthritis and osteoarthritis, as well as asthma or related airway or respiratory inflammatory disorders.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L61 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
```

ACCESSION NUMBER: 2005:1075612 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 143:339595

TITLE: Use of metformin and orlistat for the treatment or

prevention of obesity

INVENTOR(S): Junien, Jean-Louis; Edgar, Alan

PATENT ASSIGNEE(S): Fournier Laboratories Ireland Limited, Ire.

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

7

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                        KIND
                               DATE
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                                          WO 2005-EP2642
     WO 2005092311
                               20051006
                                                                  20050311
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
             SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
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                                           EP 2004-300137
     EP 1591114
                         A1
                               20051102
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     AU 2005226847
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                         A1
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                         A1
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                                         EP 2005-715996
     EP 1722770
                         A1
                               20061122
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                               20070314 ...
                                           CN 2005-80007925
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     US 2007060532
                         A1
                             20070315
                                           US 2006-518988
                                                                  20060912
     NO 2006004124
                         Α
                               20060926
                                           NO 2006-4124
                                                                 20060913
PRIORITY APPLN. INFO.:
                                           EP 2004-300137
                                                              A 20040312
                                           WO 2005-EP2642
                                                              W 20050311
     The invention relates to the use of metformin and orlistat to treat patients
AB
     suffering from obesity. Combination metformin and orlistat administration
     controlled body weight significantly better in mice fed high-fat diets
     compared to treatment with metformin or orlistat alone.
REFERENCE COUNT:
                        6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L61 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 2004:753137 HCAPLUS Full-text
DOCUMENT NUMBER:
                        141:254589
TITLE:
                        Combined use of a fibrate and orlistat for the
                        treatment of obesity
INVENTOR(S):
                        Junien, Jean-Louis; Edgar, Alan
PATENT ASSIGNEE(S):
                        Fournier Laboratories Ireland Limited, Ire.
SOURCE:
                        Eur. Pat. Appl., 8 pp.
                        CODEN: EPXXDW
DOCUMENT TYPE:
                        Patent
                        English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                            DATE
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                                         EP 2003-290625
     EP 1457206
                               20040915
                         A1
                                                                 20030313
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                                          AU 2004-218938
     AU 2004218938
                         A1
                               20040923
                                                                 20040312
     CA 2518205
                         Α1
                               20040923
                                           CA 2004-2518205
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     WO 2004080450
                         A2
                               20040923
                                           WO 2004-EP4010
                                                                 20040312
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

20050224

A3

WO 2004080450

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             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
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     EP 1601352
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                          A2
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     BR 2004008322
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     US 2007078179
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PRIORITY APPLN. INFO.:
                                             EP 2003-290625
                                                                 A 20030313
                                             WO 2004-EP4010
                                                                 A 20040312
AB
     The invention discloses the use of a fibrate and orlistat to treat patients
     suffering from obesity.
REFERENCE COUNT:
                               THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                         6
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L61 ANSWER 4 OF 12
                     HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
ACCESSION NUMBER:
                        2004:446887 HCAPLUS Full-text
DOCUMENT NUMBER:
                         140:417962
TITLE:
                         Combination of a ppar alpha agonist and metformin for
                         treatment of metabolic syndrome including obesity by
                         decreasing the serum triglycerides
INVENTOR (S):
                         Junien, Jean-Louis; Edgar, Alan;
                         Chaput, Evelyne ·
PATENT ASSIGNEE(S):
                         Fournier Laboratories Ireland Limited, Ire.
SOURCE:
                         Eur. Pat. Appl., 14 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     DATENT NO
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PAT	CENT	NO.					DATE						-	DATE				
EP	1424	070			A1 20040602			EP 2002-292940					20021128					
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CA	2507	894			A1		2004	0610		CA 2	003-	2507	894		2	0031	126	
WO	O 2004047831						2004	0610	,	WO 2	003-	EP13	302		2	0031	126	
WO	O 2004047831						2005	0224										
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		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		
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AU 2003288175					A1		2004	0618	AU 2003-288175					20031126				
EP 1569634 A2				A2		20050907 EP 2003-780062							20031126					

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20070516
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PRIORITY APPLN. INFO.:
                                            EP 2002-292940
                                                                A 20021128
                                            WO 2003-EP13302
                                                                W 20031126
```

AB The present invention discloses methods of the combined use of a PPARα agonist, metformin and a pharmaceutically acceptable carrier for decreasing serum triglycerides, the treatment of metabolic syndrome including obesity. PPAR alpha agonists are a fibrate selected from the group consisting of gemfibrozil, fenofibrate, bezafibrate, clofibrate, ciprofibrate.

L61 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5

ACCESSION NUMBER:

2004:117217 HCAPLUS Full-text

DOCUMENT NUMBER:

140:157488

TITLE:

Use of fibrate to treat weight gain associated with

rosiglitazone treatment

INVENTOR(S):

Junien, Jean Louis; Edgar, Alan;

Chaput, Evelyne

PATENT ASSIGNEE(S):

Laboratoires Fournier S.A., Fr.

SOURCE:

Eur. Pat. Appl., 8 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English '

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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ΕP	1388	352			A1	2004	0211	EP	2002-	2928	30		2	0021	114	
	R:	ΑT,	ΒE,	CH,	DE,	DK, ES,	FR,	GB, GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
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WO	0 2004018041				A1	2004	0304	WO	2003-	EP87	56		2	0030	806	
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EP	1526	894 A1 2005050					0504	EP	2003-	7922	72		2	0030	306	
	R:	ΑT,	BE,	CH,	DE,	DK, ES,	FR,	GB, GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI, RO,	MK,	CY, AL	, TR,	BG,	CZ,	ĒE,	HU,	SK		
CN	1674	959			A	2005	0928	CN 2003-819135								
JP 2005539033					T	2005	1222	JP 2004-530101						20030806		

20040610 US 2004110799 **A1** US 2003-636670 NO 2005000526 20050302 NO 2005-526 20050131 Α PRIORITY APPLN. INFO.: EP 2002-291994 A 20020808 EP 2002-292830 A 20021114 WO 2003-EP8756 W 20030806

The present invention relates to the use of a fibrate to treat patients AB suffering from weight gain associated with rosiglitazone treatment.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 6 OF 12 WPIX COPYRIGHT 2007

ACCESSION NUMBER: 2004-181908 [18] WPIX

THE THOMSON CORP on STN

CROSS REFERENCE:

2004-171033

DOC. NO. CPI: TITLE:

C2004-072058 [18]

Use of peroxisome proliferator-activated receptor-alpha agonist for treating weight gain associated with

peroxisome proliferator-activated receptor-gamma agonist

treatment

DERWENT CLASS:

B05

INVENTOR:

CHAPUT E; EDGAR A; EDGAR A D;

PATENT ASSIGNEE:

CHAPUT E; EDGAK A; EDGAL JUNIEN J; JUNIEN J L
(CHAP-I) CHAPUT E; (EDGA-I) EDGAR A; (JUNI-I) JUNIEN J;
(LFOU-C) LAB FOURNIER SA

COUNTRY COUNT:

PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK LA	PG	MAIN IPC
EP 1388352	A1 20040211	(200418) * EN	10[0]	
WO 2004018041	A1 20040304	(200418) EN		
US 20040110799	A1 20040610	(200438) EN		
AU 2003260380	A1 20040311	(200457) EN		
EP 1526894	A1.20050504	(200530) EN	1	
NO 2005000526	A 20050302	(200530) NO	•	
JP 2005539033	W 20051222	(200604) JA	24	
CN 1674959	A 20050928	(200610). ZH		

APPLICATION DETAILS:

PATENT NO	KIND	API	PLICATION	DATE
EP 1388352 A1 AU 2003260380 EP 1526894 A1 WO 2004018041 EP 1526894 A1	A1 L A1	AU EP WO	2002-292830 2003-260380 2003-792272 2003-EP8756 2003-EP8756	20030806 20030806 20030806
NO 2005000526	•	WO	2003-EP8756	20030806
JP 2005539033			2003-EP8756	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
US 2004011079		US	2003-636670	20030808
JP 2005539033		JP	2004-530101	20030806
NO 2005000526	5 A	NO	2005-526 200	050131
CN 1674959 A	•	CN	2003-819135	20030806

FILING DETAILS:

PATENT NO	KIND	,	PATENT NO	
AU 2003260380		Based on	WO 2004018041 A	
EP 1526894 A1		Based on	WO 2004018041 A	

JP 2005539033 W

Based on

WO 2004018041 A

PRIORITY APPLN. INFO: EP 2002-291994 20020808

EP 2002-292830 20021114

EP 1388352 A1 UPAB: 20060121 AB

> NOVELTY - Weight gain associated with a peroxisome proliferator-activated receptor (PPAR) -qamma agonist treatment is reduced by co-administering PPARalpha agonist and a PPAR-gamma agonist.

ACTIVITY - Anorectic. Male homozygous Zucker rats were per orally administered with a combination of fenofibrate (100 mg/kg) and rosiglitazone (0.3 mg/kg) twice daily. The results showed a reduction in body weight gain on co-administration of fenofibrate with rosiglitazone.

MECHANISM OF ACTION - PPAR-Agonist-Alpha; PPAR-Agonist-Gamma.

USE - In the manufacture of a medicament for decreasing the body weight gain associated with PPAR-gamma agonist treatment (claimed).

L61 ANSWER 7 OF 12 MEDLINE on STN DUPLICATE 6

2002240527 MEDLINE Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: PubMed ID: 11978643

TITLE: Chronic inhibition of circulating dipeptidyl peptidase IV

by FE 999011 delays the occurrence of diabetes in male

zucker diabetic fatty rats.

AUTHOR: Sudre Beatrice; Broqua Pierre; White Richard B; Ashworth

Doreen; Evans D Michael; Haigh Robert; Junien

Jean-Louis; Aubert Michel L

CORPORATE SOURCE: Ferring Research Institute and Division of Biology of

> Growth and Reproduction, Department of Pediatrics, University of Geneva School of Medicine, Geneva,

Switzerland.

Diabetes, (2002 May) Vol. 51, No. 5, pp. 1461-9. SOURCE:

Journal code: 0372763. ISSN: 0012-1797.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

Abridged Index Medicus Journals; Priority Journals FILE SEGMENT:

ENTRY MONTH: 200205

ENTRY DATE: Entered STN: 30 Apr 2002

> Last Updated on STN: 28 May 2002 Entered Medline: 23 May 2002

Acute suppression of dipeptidyl peptidase IV (DPP-IV) activity improves AB glucose tolerance in the Zucker fatty rat, a rodent model of impaired glucose tolerance, through stabilization of glucagon-like peptide (GLP)-1. This study describes the effects of a new and potent DPP-IV inhibitor, FE 999011, which is able to suppress plasma DPP-IV activity for 12 h after a single oral administration. In the Zucker fatty rat, FE 999011 dose-dependently attenuated glucose excursion during an oral glucose tolerance test and increased GLP-1 (7-36) release in response to intraduodenal glucose. Chronic treatment with FE 999011 (10 mg/kg, twice a day for 7 days) improved glucose tolerance, as suggested by a decrease in the insulin-to-glucose ratio. Zucker diabetic fatty (ZDF) rat, a rodent model of type 2 diabetes, chronic treatment with FE 999011 (10 mg/kg per os, once or twice a day) postponed the development of diabetes, with the twice-a-day treatment delaying the onset of hyperglycemia by 21 days. In addition, treatment with FE 999011 stabilized food and water intake to prediabetic levels and reduced hypertriglyceridemia while preventing the rise in circulating free fatty acids. At the end of treatment, basal plasma GLP-1 levels were increased, and pancreatic gene expression for GLP-1 receptor was significantly upregulated. This study demonstrates that DPP-IV inhibitors such as FE 999011 could be of clinical

value to delay the progression from impaired glucose tolerance to type 2 diabetes .

L61 ANSWER 8 OF 12 MEDLINE on STN DUPLICATE 7

ACCESSION NUMBER: 2000261281 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 10799317

Fenofibrate and rosiglitazone lower serum triglycerides TITLE:

with opposing effects on body weight.

Chaput E; Saladin R; Silvestre M; Edgar A D AUTHOR:

Department of Metabolic Diseases, Laboratoire Fournier, 50, CORPORATE SOURCE:

rue de Dijon, Daix, 21121, France.

SOURCE: Biochemical and biophysical research communications,

> (2000 May 10) Vol. 271, No. 2, pp. 445-50. Journal code: 0372516. ISSN: 0006-291X.

United States PUB. COUNTRY:

DOCUMENT TYPE: (COMPARATIVE STUDY)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 200006

ENTRY DATE: Entered STN: 22 Jun 2000

> Last Updated on STN: 18 Mar 2003 Entered Medline: 13 Jun 2000

Activators of peroxisome proliferator activated receptors (PPARs) are effective drugs to improve the metabolic abnormalities linking hypertriglyceridemia to diabetes, hyperglycemia, insulin-resistance, and atherosclerosis. We compared the pharmacological profile of a PPARalpha activator, fenofibrate, and a PPARgamma activator, rosiglitazone, on serum parameters, target gene expression, and body weight gain in (fa/fa) fatty Zucker rats and db/db mice as well as their association in db/db mice. Fenofibrate faithfully modified the expression of PPARalpha responsive genes. Rosiglitazone increased adipose tissue aP2 mRNA in both models while increasing liver acyl CoA oxidase mRNA in db/db mice but not in fatty Zucker Both drugs lowered serum triglycerides yet rosiglitazone markedly increased body weight gain while fenofibrate decreased body weight gain in fatty Zucker rats. KRP 297, which has been reported to be a PPARalpha and gamma co-activator, also affected serum triglycerides and insulin in fatty Zucker rats although no change in body weight gain was noted. These results serve to clearly differentiate the metabolic finality of two distinct classes of drugs, as well as their corresponding nuclear receptors, having similar effects on serum triglycerides. Copyright 2000 Academic Press.

L61 ANSWER 9 OF 12 MEDLINE on STN **DUPLICATE 9**

ACCESSION NUMBER: 80108314 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 526068

TITLE: DBM mice as a pharmacological model of maturity onset

diabetes. Studies with metformin.

AUTHOR: Junien J L; Brohon J; Guillaume M; Sterne J

SOURCE: Archives internationales de pharmacodynamie et de therapie,

> (1979 Sep) Vol. 241, No. 1, pp. 165-76. Journal code: 0405353. ISSN: 0301-4533.

PUB. COUNTRY: Belgium

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198003

ENTRY DATE: Entered STN: 15 Mar 1990

Last Updated on STN: 15 Mar 1990 Entered Medline: 24 Mar 1980

AB Hyperglycemic obese and hyperinsulinemic mice of DBM strain develop a diabetic syndrome which can be compared to human maturity onset diabetes. In this study 6 to 49 weeks old female mice were used. Hyperglycemia and concomitant obesity were observed at 9 weeks. Plasma immunoreactive insulin (IRI) was maximum at 15--20 weeks, then decreased progressively with broad individual variations. Metformin, administered at 200 mg/kg per os, ineffective dosage in normal mice, showed a strong hypoglycemic effect in younger mice (11--18 weeks) with a plasma IRI decrease and no blood lactate and liver glycogen alteration. Plasma metformin concentration curve showed an exponential elimination fitted to a one compartment model with a plasma half-life of 2.7 hours. Metformin-induced hypoglycemia was lower in older mice (23--29 weeks) and corroborated their lower initial plasma IRI. All these results are in accordance with those reported in man and show that DBM mice provide a suitable model for a better understanding of antidiabetic drugs effects.

L61 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on

DUPLICATE 8 STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1982:145004 BIOSIS Full-text PREV198273004988; BA73:4988

TITLE:

HEMO GLOBIN A-I-C MEASUREMENT IN THE INVESTIGATION OF HYPO

GLYCEMIC DRUGS IN MICE A STUDY WITH METFORMIN.

AUTHOR(S):

JUNIEN J L [Reprint author]; WAJCMAN H

CORPORATE SOURCE:

SERPA, CENT RECHERCHES LAB ARON, 116 RUE CARNOT, 92151

SURESNES, FRANCE.

SOURCE: :

Archives Internationales de Pharmacodynamie et de Therapie,

(1981) Vol. 250, No. 1, pp. 123-130.

CODEN: AIPTAK. ISSN: 0003-9780.

DOCUMENT TYPE: FILE SEGMENT:

Article

: BA

LANGUAGE:

ENGLISH

Hyperglycemic, obese and hyperinsulinemic mice were used as a model for studying the effect of antidiabetic drugs. Using an automatic chromatography method, the variations of Hb AIc [Hb fraction AIc] were determined in these. animals, untreated and after treatment by metformin. The use of this parameter gives a better insight of the overall course of diabetes than single blood glucose determination.

L61 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on

ACCESSION NUMBER:

1983:213887 BIOSIS Full-text

DOCUMENT NUMBER:

PREV198375063887; BA75:63887

TITLE:

ENDOCRINE PANCREATIC REGENERATION IN DIABETIC MOUSE AN

ULTRASTRUCTURAL AND HISTO ENZYMOLOGICAL STUDY.

AUTHOR(S):

CHOMETTE G [Reprint author]; STERNE J; AURIOL M; TRANBALOC

P; JUNIEN J L

CORPORATE SOURCE:

SERVICE D'ANATOMIE PATHOLOGIQUE DU CHU PITIE-SALPETRIERE,

83, BOULEVARD DE L'HOPITAL, F 75651 PARIS

SOURCE:

Annales de Pathologie, (1981) Vol. 1, No. 1, pp.

CODEN: ASPAD2. ISSN: 0242-6498.

DOCUMENT TYPE:

Article

FILE SEGMENT:

LANGUAGE:

FRENCH

The diabetic mouse [dbm] is an experimental model of genetic diabetes. this strain, a mild diabetic syndrome occurs after 8 or 10 wk, in association with intensive endocrine pancreatic regeneration and hyperinsulinemia.

biological, morphological and histoenzymological features of pancreas in 33 homozygous DBM mice are compared with those of 10 normal (heterozygous) controls. Twelve of these diabetic animals are treated on and after the 8th week with a hypoglycemic drug (Metformin), which makes easier the peripheral metabolism of glucose. The age of the experimental mice is 25 or 52 wk at the time of sacrifice. In non-treated diabetic mice, hyperfunctional state of β cells is always noted. On fuschine-paraldehyde stain, these cells are almost completely degranulated. High levels of enzymatic activities are found, with a special mention for the intense positivity of glucose-6-phosphatase: this pecularity follows upon an excessive intracellular glucose in β cells and subsequent production of glucose-6-phosphatase; the acid phosphatase is also intensely positive. The ultrastructural characteristics are those of very active cells: numerous light cells with large, multinucleolated nucleus: Golqi apparatus scattered everywhere in hyaloplasm and often contiguous to coatvesicles and rigid tubules of Golgi-endoplasmic reticulum-lysosome complex; rough endoplasmic reticulum is abnormally developed, with numerous cisternae filled with granular material. In contrast with these organelles involved in an active protein synthesis, secretory granules are scarce and often small; that may be explained either by a too quick turnover or by an anomaly in insulin synthesis. In this group, another change is very striking: the extensive insular regeneration. At first, the preexistent islets of Langerhans become hyperplastic, because of abnormal multiplication of islets cells, as already proved by isotopic studies (chick). An insular neogenesis from young canalicular cells is always conspicuous. Colonization of the islets by excretory ducts is often found in old animals. These exocrine structures, lined with numerous indifferentiated parietal cells, appear to produce new endocrine cells and to participate in active regeneration. After early administration of Metformin to these diabetic mice, a significant decrease in blood sugar level is found. But hyperinsulinemia is not reduced. Morphological anomalies compared to those of non-treated group, are almost similar, although not so intensive: hyperplasia and active neogenesis of islets, without colonization; hyperfunctional state of β cells but partial restoration of secretory granules storage. These anomalies, existing in spite of lack of severe hyperglycemia , suggest in this strain, a true hypersensitivity of β cells toward glucose. Minimum elevation of blood sugar level could also induce hyperfunctional state of β cells and regeneration of islets. Among the other endocrine cells in the islets of Langerhans, D cells are not modified. α-cells are more numerous and located not only in periphery but also in center of islets; furthermore, they appear to be hyperactive; parallel cisternae of rough endoplasmic reticulum are numerous and plenty of secretory granules are located in their secretory pole. Their possible role, by means of hepatic neoglucogenesis, in initiation of hyperglycemia in this diabetes model is suggested.

L61 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

ACCESSION NUMBER:

1981:285761 BIOSIS <u>Full-text</u> PREV198172070745; BA72:70745

DOCUMENT NUMBER: TITLE:

DIABETIC GLOMERULO SCLEROSIS IN THE DBM MOUSE CORRELATED STUDY BY QUANTITATIVE MORPHOLOGY IMMUNO FLUORESCENCE AND

ELECTRON MICROSCOPY.

AUTHOR (S):

CHOMETTE G [Reprint author]; STERNE J; AURIOL M; TRANBALOC

P; JUNIEN J L

CORPORATE SOURCE:

SERVICE D'ANATOMIE PATHOLOGIQUE DU CHU UITIE-SALPETRIERE,

83, BLVD DE L'HOPITAL, 75651 PARIS CEDEX 13

SOURCE:

Annales d'Anatomie Pathologique, (1980) Vol. 25,

No. 4, pp. 317-330.

CODEN: ANAPA2. ISSN: 0003-3871.

DOCUMENT TYPE:

Article

FILE SEGMENT:

BA

LANGUAGE:

FRENCH

AΒ Using an experimental model of genetic diabetes (DBM mouse) a comparison was made of the results of quantitative data obtained by light microscopy and EM (measurement of glomerular and mesangial surface areas, assessment of the thickness of the basal membrane and its irregularities) and was used to demonstrate the actual presence of glomerulosclerosis in the renal parenchyma of 31 diabetic animals. Immunofluorescent investigations in these same animals demonstrated the presence of serum proteins (in particular immunoglobulins and albumin) in the glomerulus and the tubular basal membrane. These substances transuded through the vessels as a result of increased vascular permeability. Membrane abnormalities were not a consequence of hyperglycemia. In the group 1 batch of animals in which hyperglycemia was partially reduced by glycoregulatory therapy showed the same glomerular changes. Among other factors, the possible role of hyperinsulinemia constantly present in these animals, regardless of their blood glucose level, is worthy of consideration.

***** QUERY RESULTS *****

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 L29
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 L5
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            2862 SEA FILE=HCAPLUS ABB=ON PLU=ON METFORMIN/OBI
 L7
 L8
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 L9
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 L10
            191 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 AND L5
 L11
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11420 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 OR L5
218 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND L10
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 L13
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                 YPE TWO)
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                 <2003 OR REVIEW/DT
 L25
              53 SEA FILE=HCAPLUS ABB=ON PLU=ON (L11 OR L14) AND ((L17 OR L18
                OR L19))
              22 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L24
 L26
               5 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 (P) (COMBINATION#/OBI OR
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                 DOSAGE#/OBI OR DOSING/OBI OR ADMINISTER?/OBI)
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 L19
                 YPE TWO)
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 L23
 L35
             45 SEA FILE=WPIX ABB=ON PLU=ON L15 AND L16
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 L15
 L16
                 QUE ABB=ON PLU=ON METFORMIN
                 QUE ABB=ON PLU=ON HYPERGLYCEMI? OR DIABETE# METILLUS
 L17
                 QUE ABB=ON PLU=ON HYPERGLYCEMI? (2A) AGENT#
L18
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L19		QUE ABB=ON PLU=ON DIABET? (2A) (TYPE 2 OR TYPE II OR T
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L35	45	SEA FILE=WPIX ABB=ON PLU=ON L15 AND L16
L36	6049	SEA FILE=WPIX ABB=ON PLU=ON (L17 OR L18 OR L19)
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L47	238391	SEA L36
L48	265	SEA L46 AND L47
L49	74	SEA L48 AND L24
L51	29	SEA L49 (P) (COMBINATION# OR DOSAGE# OR DOSING OR ADMINISTER?)
L52	1	SEA L49 AND (CAPSULE# OR DRAGEE# OR GRANULE# OR POWDER# OR
		SACHET# OR TABLET# OR SUSPENSION#)
L53	29	SEA L51 OR L52

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PROCESSING COMPLETED FOR L40 PROCESSING COMPLETED FOR L53

L62 41 DUP REM L29 L40 L53 (2 DUPLICATES REMOVED)

ANSWERS '1-5' FROM FILE HCAPLUS
ANSWERS '6-14' FROM FILE WPIX
ANSWERS '15-26' FROM FILE MEDLINE
ANSWERS '27-37' FROM FILE EMBASE
ANSWERS '38-41' FROM FILE DRUGU

=> d 162 1-5 ibib ed abs hitind

L62 ANSWER 1 OF 41 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2007:215673 HCAPLUS Full-text

DOCUMENT NUMBER: 146:350367

TITLE: Fenofibrate: a review of its use in primary

dyslipidemia, the metabolic syndrome and type

2 diabetes mellitus

AUTHOR(S): Keating, Gillian M.; Croom, Katherine F.

CORPORATE SOURCE: Wolters Kluwer Heath, Auckland, N. Z.

SOURCE: Drugs (2007), 67(1), 121-153

CODEN: DRUGAY; ISSN: 0012-6667

PUBLISHER: Adis International Ltd.
DOCUMENT TYPE: Journal; General Review

LANGUAGE: English ED Entered STN: 28 Feb 2007

AB A review. Fenofibrate is a fibric acid derivative indicated for use in the treatment of primary hypercholesterolemia, mixed dyslipidemia and hypertriglyceridemia in adults who have not responded to nonpharmacol. measures. Its lipid-modifying effects are mediated by activation of peroxisome proliferator-activated receptor-α. Fenofibrate also has nonlipid (i.e. pleiotropic) effects (e.g. it reduces fibrinogen, C-reactive protein and uric acid levels and improves flow-mediated dilatation). Fenofibrate improves lipid levels (in particular triglyceride [TG] and high-d. lipoproteincholesterol [HDL-C] levels) in patients with primary dyslipidemia. Its lipidlowering profile means that fenofibrate is particularly well suited for use in atherogenic dyslipidemia (characterized by high TG levels, low HDL-C levels and small, dense low-d. lipoprotein [LDL] particles), which is commonly seen in patients with the metabolic syndrome and type 2 diabetes mellitus. Indeed, fenofibrate improves the components of atherogenic dyslipidemia in patients with these conditions, including a shift from small, dense LDL particles to larger, more buoyant LDL particles. Greater improvements in lipid levels are

seen when fenofibrate is administered in combination with an HMG-CoA reductase inhibitor (statin) or in combination with ezetimibe, compared with monotherapy with these agents. In the DAIS study, fenofibrate significantly slowed the angiog. progression of focal coronary atherosclerosis in patients with type 2 diabetes. In terms of clin. outcomes, although no significant reduction in the risk of coronary events was seen with fenofibrate in the FIELD trial in patients with type 2 diabetes, treatment was associated with a significantly reduced risk of total cardiovascular disease (CVD) events, primarily through the prevention of non-fatal myocardial infarction and coronary revascularisation. Subgroup analyses revealed significant redns. in total CVD events and coronary heart disease events in patients with no previous CVD, suggesting a potential role for primary prevention with fenofibrate in patients with early type 2 diabetes. Improvements were also seen in microvascular outcomes with fenofibrate in the FIELD trial. Fenofibrate is generally well tolerated, both as monotherapy and when administered in combination with a statin. Combination therapy with fenofibrate plus a statin appears to be associated with a low risk of rhabdomyolysis; no cases of rhabdomyolysis were reported in patients receiving such therapy in the FIELD trial. Thus, fenofibrate is a valuable lipid-lowering agent, particularly in patients with atherogenic dyslipidemia.

CC 1-0 (Pharmacology)

IT Combination chemotherapy

(ezetimibe or statin combination improved lipid-lowering efficacy of fenofibrate in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia)

IT Fibrates

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(fenofibrate and statin combination associated with low risk of rhabdomyolysis in metabolic syndrome and type 2 diabetes mellitus patient)

IT High-density lipoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study) (fenofibrate improved high-d. lipoprotein-cholesterol level in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia)

IT Glycerides, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study) (fenofibrate improved triglyceride level in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia)

IT Cardiovascular system, disease

(fenofibrate reduced total cardiovascular disease risk through prevention of non-fatal myocardial infarction and coronary revascularization in type 2 diabetes mellitus patient)

IT Low-density lipoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(fenofibrate shifted small, dense low-d. lipoprotein particle to large,
more buoyant particle in metabolic syndrome and type
2 diabetes mellitus patients with atherogenic
dyslipidemia)

IT Coronary artery disease

HMG-CoA reductase inhibitors

(fenofibrate significantly slowed angiog. progression of focal coronary atherosclerosis in type 2 diabetes mellitus patient)

IT Dyslipidemia

Human

Hypolipemic agents (fenofibrate was well tolerated and effective lipid-lowering agent in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) Metabolic disorders TT (metabolic syndrome X; fenofibrate was well tolerated and effective lipid-lowering agent in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) ΙT Diabetes mellitus (non-insulin-dependent; fenofibrate was well tolerated and effective lipid-lowering agent in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) IT Muscle, disease (rhabdomyolysis; fenofibrate and statin combination associated with low risk of rhabdomyolysis in metabolic syndrome and type 2 diabetes mellitus patient) ΙT 163222-33-1, Ezetimibe RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ezetimibe combination improved lipid-lowering efficacy of fenofibrate in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) IT 657-24-9, Metformin 96829-58-2, Orlistat RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fenofibrate and statin combination associated with low risk of rhabdomyolysis in metabolic syndrome and type 2 diabetes mellitus patient) IT 49562-28-9, Fenofibrate RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fenofibrate was well tolerated and effective lipid-lowering agent in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) 57-88-5, Cholesterol, biological studies IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (fibric acid derivative fenofibrate was well tolerated and effective lipid-lowering agent in metabolic syndrome and type 2 diabetes mellitus patients with atherogenic dyslipidemia) IT 9028-35-7 RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; fenofibrate significantly slowed angiog. progression of focal coronary atherosclerosis in type 2 diabetes mellitus patient) REFERENCE COUNT: THERE ARE 194 CITED REFERENCES AVAILABLE FOR 194 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L62 ANSWER 2 OF 41 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2007:42392 HCAPLUS Full-text DOCUMENT NUMBER: 147:44785 TITLE: Diabetes, obesity, and metabolic syndrome AUTHOR (S): Scheen, Andre J. Division of Diabetes, Nutrition and Metabolic CORPORATE SOURCE: Disorders Department of Medicine, Sart Tilman Hospital, Liege, Belg. SOURCE: Nutrient-Drug Interactions (2007), 1-30. Editor(s): Meckling, Kelly Anne. CRC Press LLC: Boca Raton, Fla.

Conference; General Review

DOCUMENT TYPE:

CODEN: 69ITVJ; ISBN: 978-1-57444-915-0

10/568523 LANGUAGE: English Entered STN: 14 Jan 2007 ED A review on dietary and pharmacol. interventions in metabolic diseases, such AB as diabetes mellitus, obesity, and metabolic syndrome (including atherogenic dyslipidemia). Potential food-drug or nutrient-drug interactions of clin. interest in patients with these disorders are described. CC 1-0 (Pharmacology) Antidiabetic agents IT Antiobesity agents Combination chemotherapy Diet Human Hypolipemic agents (combined dietary and pharmacol. drug intervention might be effective for management of metabolic disorder in patient) Diabetes mellitus IT (combined dietary and pharmacol. drug intervention might be effective for management of type II diabetes mellitus in patient) IT HMG-CoA reductase inhibitors (combined dietary and statin drug intervention might be effective for management of metabolic disorder in patient) IT 657-24-9, Metformin RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combined dietary and metformin drug intervention might be effective for management of metabolic disorder in patient) IT . 79902-63-9, Simvastatin RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combined dietary and simvastatin drug intervention might be effective for management of metabolic disorder in patient) IT 9028-35-7 RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; combined dietary and statin drug intervention might be effective for management of metabolic disorder in patient) REFERENCE COUNT: 177 THERE ARE 177 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT . L62 ANSWER 3 OF 41 HCAPLUS COPYRIGHT 2007 ACS on STN 2004:41231 HCAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 140:111429 TITLE: Preparation of substituted heterocyclic derivatives useful as antidiabetic and antiobesity agents INVENTOR(S): Cheng, Peter T. W.; Chen, Sean; Devasthale, Pratik; Ding, Charles Z.; Herpin, Timothy F.; Wu, Shung; Zhang, Hao; Wang, Wei; Ye, Xiang-Yang PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA SOURCE: PCT Int. Appl., 543 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004004665	A2	20040115	WO 2003-US22149	20030702 <
WO 2004004665	A3	20040325		

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             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
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PRIORITY APPLN. INFO.:
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OTHER SOURCE(S): MARPAT 140:111429

ED Entered STN: 18 Jan 2004

GI

AB The title compds. (I) [Z1 = (CH2)q, CO; Z2 = (CH2)p, CO; D = CH, CO, (CH2)m](where m = 0-3; p = 1, 2; q = 0-2); n = 0-2; Q = C, N; A = (CH2)x (where x = 0) 1-5); A = (CH2)x1 (where x1 = 1-5) with an alkenyl bond or an alkynyl bond embedded anywhere in the chain; or A = -(CH2)x2-O-(CH2)x3- (where X2, X3 = 0 to 5, provided that at least one of x2 and x3 is other than 0); B = a bond or $(CH2)\times 4$ (where $\times 4$ = 1-5); $\times 4$ = $\times 4$ = CH, N; $\times 4$ = C, N, O, or S and at least one of X2-X6 is C; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halogen, (un) substituted amino; R2a, R2b, R2c = H, alkyl, alkoxy, halogen, (un) substituted amino, cyano; R3 = H, alkyl, arylalkyl, aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, cycloheteroalkyl, etc.; E = CH, N; Z = (CH2)x5 (where x5 is 0, i.e. a single or a double bond, 1, 2), or Z is (CH2)x6 (where x6 = 2-5), where (CH2)x6 includes an alkenyl (C:C) bond embedded within the chain or Z = -(CH2)x7-O-(CH2)x8- (where x7, x8 = 0-4); (CH2)x to (CH2)x8, (CH2)m, (CH2)n, (CH2)p and (CH2)q may be optionally substituted; Y = CO2R4 (where R4 = H, alkyl, or a prodrug ester), or Y = a C-linked 1-tetrazole, a phosphinic acid of the structure P(O) (OR4a)R5 [where R4a = H, a prodrug ester; R5 = alkyl or aryl, or a phosphonic acid of the structure P(O)(OR4a)2]] including all stereoisomers, prodrug esters, and pharmaceutically acceptable salts thereof are prepared These compds., e.g. cis-1-ethoxycarbonyl-4-[3-[2-(2- phenyl-5methyloxazol-4-yl)ethoxy]phenyl]pyrrolidin-3-ylacetic acid and cis-1-(6-

trifluoromethylpyrimidin-2-yl)-4-[3-[2-(2-phenyl-5-methyloxazol-4yl)ethoxy]phenyl]pyrrolidine-3-carboxylic acid, modulate serum levels of blood glucose, triglyceride, insulin, and nonesterified fatty acid (NEFA) levels, and thus are particularly useful in the treatment of diabetes and obesity, especially Type 2 diabetes, as well as hyperglycemia, hyperinsulinemia, hyperlipidemia, obesity, atherosclerosis, and related diseases employing such substituted acid derivs. alone or in combination with another antidiabetic agent and/or a hypolipidemic agent and/ or other therapeutic agents. Disclosed is a method for treating diabetes, especially Type 2 diabetes, and related diseases such as insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood levels of fatty acids or glycerol, hyperlipidemia, obesity, hypertriglyceridemia, inflammation, Syndrome X, diabetic complications, dysmetabolic syndrome, atherosclerosis, and related diseases, which comprises administering to a patient in need of treatment a therapeutically effective amount of the compound I. Also disclosed is a method for treating early malignant lesions (such as ductal carcinoma in situ of the breast and lobular carcinoma in situ of the breast), premalignant lesions including fibroadenoma of the breast and prostatic intraepithelial neoplasia (PIN), liposarcomas and various other epithelial tumors (including breast, prostate, colon, ovarian, gastric and lung), irritable bowel syndrome, Crohn's disease, gastric ulceritis, and osteoporosis and proliferative diseases such as psoriasis, which comprises administering to a patient in need of treatment a therapeutically effective amount of the compound I.

IC ICM A61K

CC 28-17 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

ST heterocycle prepn antidiabetic antiobesity; oxazolylethoxyphenylpyrrolidin eacetic acid prepn antidiabetic antiobesity; oxazolylethoxyphenylpyrimidin ylpyrrolidinecarboxylic acid prepn antidiabetic antiobesity; pyrimidinylpyrrolidinecarboxylic acid oxazolylethoxyphenyl prepn antidiabetic antiobesity; pyrrolidineacetic acid oxazolylethoxyphenyl prepn antidiabetic antiobesity; hyperglycemia hyperinsulinemia hyperlipidemia obesity atherosclerosis treatment heterocycle prepn

IT Anti-inflammatory agents

Antidiabetic agents
Antiobesity agents
Antitumor agents
Antiulcer agents
Atherosclerosis
Carcinoma
Cytotoxic agents

Diabetes mellitus

Human

Hyperglycemia
Hypertriglyceridemia
Hypolipemic agents
Inflammation
Lung, neoplasm
Obesity
Osteoporosis
Ovary, neoplasm
Prostate gland, neoplasm
Psoriasis

Stomach, neoplasm

(preparation of substituted heterocyclic derivs. as antidiabetic and antiobesity agents)

IT 50-78-2, Aspirin 51-64-9, Dexamphetamine 52-53-9, Verapamil 56-03-1, Biguanide 58-32-2, Dipyridamole 59-67-6, Niacin, biological studies 94-20-2, Chloropropamide 122-09-8, Phentermine 525-66-6, Propranolol 637-07-0, Clofibrate 657-24-9, Metformin 943-45-3D,

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42200-33-9, Nadolol
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55142-85-3, Ticlopidine
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72432-03-2, Miglitol
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75847-73-3, Enalapril
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85441-61-8, Quinapril
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89750-14-1, Glucagon-like peptide I 93479-97-1, Glimepiride
93957-54-1, Fluvastatin 96829-58-2, Orlistat
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RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
   (combination therapy; preparation of substituted heterocyclic
  derivs. as antidiabetic and antiobesity agents)
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L62 ANSWER 4 OF 41 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:41224 HCAPLUS Full-text

DOCUMENT NUMBER:

140:111417

TITLE:

Preparation of substituted heterocyclic derivatives

useful as antidiabetic and antiobesity agents Cheng, Peter T. W.; Chen, Sean; Ding, Charles Z.;

Herpin, Timothy F.

PATENT ASSIGNEE(S):

Bristol-Myers Squibb Company, USA

SOURCE:

PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

'INVENTOR(S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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OTHER SOURCE(S): MARPAT 140:111417

ED Entered STN: 18 Jan 2004

GΙ

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 $R^{2?}$
 $R^{2?}$
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AB Compds. having general structure (I) [Q = C, N; A = (un)substituted (CH2)x (where x = 1-5) with an alkenyl bond or an alkynyl bond embedded anywhere in the chain, or A = (un) substituted -(CH2)x2-O-(CH2)x3-(where <math>x2, x3 = 0-5,provided that at least one of x2 and x3 is other than 0); B = a bond, (un) substituted (CH2) x4 (where x4 = 1-5); X = CH, N; X2-X6=C, N, O, or S, provided that at least one of X2-X6 is N; and at least one of X2, X3, X4, X5 and X6 is C; R1 = H, alkyl; R2, R2a, R2b, R2c = H, alkyl, alkoxy, halogen, (un) substituted amino, cyano; R3 = H, alkyl, arylalkyl, aryloxycarbonyl, alkyloxycarbonyl, alkynyloxycarbonyl, alkenyloxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, cycloheteroalkyl, heteroarylcarbonyl, heteroarylheteroarylalkyl, alkylcarbonylamino, arylcarbonylamino, heteroarylcarbonylamino, alkoxycarbonylamino, aryloxycarbonylamino, etc.; Y = CO2R (where R = H, alkyl, or a prodrug ester), or Y = a C-linked 1-tetrazole, a phosphinic acid of the structure P(O)(OR4a)R5 [where R4a = H, a prodrug ester; R5 = alkyl, aryl, or a phosphonic acid of the structure P(O)(OR4a)2]] including all stereoisomers thereof, prodrug esters thereof, and pharmaceutically acceptable salts thereof are prepared These compds. such as N-[[4-(1,2,3-triazol-4- ylmethoxy)benzyl] (4-methoxypheoxycarbonyl)amino]acetic acid N-[[4-[2-(1,2,3-triazol-4-yl)ethoxy]benzyl](4methoxypheoxycarbonyl)amino]acetic acid, N-[[1-[4-(2- or 4imidazolylmethoxy)phenyl]isopentyl](4-methoxypheoxycarbonyl)amino]acetic acid, N-[[1-[4-(1,2,4-oxadiazol-3-ylmethoxy)phenyl]isopentyl](4methoxypheoxycarbonyl)amino]acetic acid, N-[[4-(1,2,4-oxadiazol-3ylmethoxy)phenethyl](isobutoxycarbonyl)amino]acetic acid derivs. modulate serum levels of blood glucose, triglyceride, insulin, and nonesterified fatty

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acid (NEFA) and thus are particularly useful in the treatment of diabetes and obesity, especially Type 2 diabetes, as well as hyperglycemia, hyperinsulinemia, hyperlipidemia, obesity, atherosclerosis, and related diseases.

IC. ICM A61K

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1

Triazole imidazole oxadiazole prepn antiobesity antidiabetic; heterocycle prepn antiobesity antidiabetic; hyperglycemia hyperinsulinemia hyperlipidemia atherosclerosis treatment heterocycle prepn; triazolylmethoxybenzylmethoxypheoxycarbonylaminoacetic acid prepn antiobesity antidiabetic; triazolylethoxybenzylmethoxypheoxycarbonylaminoa cetic acid prepn antiobesity antidiabetic; imidazolylmethoxyphenylisopenty lmethoxypheoxycarbonylaminoacetic acid prepn antiobesity antidiabetic; oxadiazolylmethoxyphenylisopentylmethoxypheoxycarbonylaminoacetic acid prepn antiobesity antidiabetic; oxadiazolylmethoxyphenethylisobutoxycarbon ylamino acetic acid prepn antiobesity antidiabetic

IT Anti-inflammatory agents

Antidiabetic agents
Antiobesity agents
Antitumor agents
Antiulcer agents
Atherosclerosis
Carcinoma
Cytotoxic agents

Diabetes mellitus

Human

Hyperglycemia
Hypertriglyceridemia
Hypolipemic agents
Inflammation
Lung, neoplasm
Neoplasm
Obesity
Osteoporosis
Ovary, neoplasm
Psoriasis
Stomach, neoplasm

(preparation of substituted heterocyclic derivs. as antidiabetic and antiobesity agents)

52-53-9, Verapamil IT 50-78-2, Aspirin 51-64-9, Dexamphetamine 58-32-2, Dipyridamole 59-67-6, Niacin, biological studies Biguanide 94-20-2, Chloropropamide 122-09-8, Phentermine 525-66-6, Propranolol 637-07-0, Clofibrate 657-24-9, Metformin 943-45-3D, 4205-91-8, Clonidine monohydrochloride Fibric acid, derivs. 10238-21-8, Glyburide 14838-15-4, Phenylpropanolamine Prazosin hydrochloride 21187-98-4, Gliclazide 21829-25-4, Nifedipine 22232-71-9, Mazindol 25812-30-0, Gemfibrozil 29094-61-9, Glipizide 49562-28-9, Fenofibrate 42200-33-9, Nadolol 54870-28-9, Meglitinide 55142-85-3, Ticlopidine 56180-94-0, Acarbose 62571-86-2, Captopril 72956-09-3, Carvedilol 72432-03-2, Miglitol 75330-75-5, Lovastatin 75847-73-3, Enalapril 76547-98-3, Lisinopril 79902-63-9, Simvastatin 80830-42-8, Fentiapril 81093-37-0, Pravastatin 85441-61-8, Quinapril 86541-75-5, Benazepril 87333-19-5, Ramipril 89750-14-1, Glucagon-like peptide I 93479-97-1, Glimepiride 93957-54-1, Fluvastatin 96829-58-2, Orlistat 97240-79-4, Topiramate 98048-97-6, Fosinopril 103775-10-6, Moexipril 105816-04-4, Nateglinide 106650-56-0, Sibutramine 111025-46-8, Pioglitazone 111470-99-6, Amlodipine besylate 113665-84-2, Clopidogrel 114798-26-4, Losartan 122320-73-4, Rosiglitazone 134523-00-5, Atorvastatin 135062-02-1,

137862-53-4, Valsartan 138402-11-6, Irbesartan 141758-74-9, AC 2993 143443-90-7, Ifetroban 144288-97-1, TS-962 144701-48-4, Telmisartan 147511-69-1 152755-31-2, LY295427 159183-92-3; L750355 160135-92-2, Gemopatrilat 161600-01-7, Isaglitazone 163222-33-1, Ezetimibe 166518-60-1, Avasimibe 168273-06-1, Rimonabant 170861-63-9, JTT-501 176435-10-2, LY315902 178759-95-0, MD 700 182815-44-7, Cholestagel 196808-45-4 199113-98-9, Balaglitazone 199914-96-0, YM-440 213252-19-8, KRP297 244081-42-3, AJ9677 251572-86-8, P32/98 258345-41-4, GW-409544 282526-98-1, ATL-962 287714-41-4 335149-08-1, L895645 335149-15-0, KAD1129 335149-17-2, ARHO 39242 335149-23-0, R-119702 335149-25-2, CP331648 430433-17-3, Glipyride NVP-DPP-728A 444069-80-1, Axokine RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination therapy; preparation of substituted heterocyclic derivs. as antidiabetic and antiobesity agents)

L62 ANSWER 5 OF 41 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2002:637483 HCAPLUS Full-text

DOCUMENT NUMBER:

137:185311

TITLE:

Preparation of 2-aryloxy-2-arylalkanoic acids for

diabetes and lipid disorders

INVENTOR(S):

Adams, Alan D.; Jones, A. Brian; Berger, Joel P.; Dropinski, James F.; Elbrecht, Alexander; Liu, Kun; Macnaul, Karen Lamb; Shi, Guo-qiang; Von, Langen Derek

J.; Zhou, Gaochao

PATENT ASSIGNEE(S):

Merck & Co., Inc., USA

SOURCE:

PCT Int. Appl., 157 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						KIND DATE			APPLICATION NO.						DATE			
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	WO	2002	0640	94		A2 20020822				WO 2002-US4680						20020205 <			
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								SG,											
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		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,	
		•						TM,											
								NL,										-	
							-	NE,				·	•	•	•	•	•	- '	
	CA	2437										002-	2437	118		2	0020	205 <	
	ΑU	2002	2519	78														205 <	
									•									205 <	
																		PT,	
		2	•	•			•	RO,	•	-	-	•	,	,	112,	J_,	,	,	
	JP.	2004											56389	91		2	0020	205 <	
		2004																730 <	
		7091								•	J	005	1,00.	<i>-</i> -		-	0030	/50 \	
		2006								1	IS 2	006-	3341	52		2	0060	118 <	
PRIOR								2000	0000				26780					209 <	
-112011					• •								JS468					205 <	
													17099				0030		

OTHER SOURCE(S): MARPAT 137:185311

ED Entered STN: 23 Aug 2002

GI

Title compds. I [R1 = halo, alkyl, alkoxy; R2 = alkyl, alicyclic; R3 = alkyl, AB aryl, alicyclic, heterocycle, etc.; R4 = H, OH, alkoxy, aryloxy, halo or R3-4 may be joined together to yield 5- or 6-membered heterocycle; R5 = H, halo; R6 = H, halo, CH3, CF3; Ar1 = Ph, thienyl, thiazolyl, oxazolyl, pyridyl; X = O, S; Z = COOH, tetrazole, carboxamide] were prepared For instance, 2,4dipropylresorcinol was converted to 2,4-dihydroxy-3,5- dipropyl- α , α , α trifluoroacetophenone (CH2Cl2, TFAA, AlCl3) and subsequently treated with i. hydroxylamine HCl, MeOH, reflux; ii. Ac2O; iii. pyridine, reflux which afforded 5,7-dipropyl-6-hydroxy-3-trifluoromethyl-1,2-benzisoxazole. benzisoxazole was reacted with Me 2-bromo-2-phenylacetate (DMF, Cs2CO3) and the product saponified to give II. I are potent agonists of the peroxisome proliferator activated receptor and are useful in the treatment of non-insulin dependent diabetes mellitus (NIDDM), hyperglycemia, dyslipidemia, hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, atherosclerosis, obesity, vascular restenosis, inflammation, and other PPAR- α and/or PPAR- γ mediated diseases.

IC ICM A61K

CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 1, 28, 63

IT Antioxidants

(combination pharmaceutical; preparation of 2-aryloxy-2-arylalkanoic acids for diabetes and lipid disorders)

IT Glucocorticoids

Sulfonylureas

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination pharmaceutical; preparation of 2-aryloxy-2-arylalkanoic acids for diabetes and lipid disorders)

IT Anti-inflammatory agents

(nonsteroidal, combination pharmaceutical; preparation of 2-aryloxy-2-arylalkanoic acids for diabetes and lipid disorders)

IT Alzheimer's disease

Angiogenesis

Angiogenesis inhibitors

Anti-Alzheimer's agents

Anti-inflammatory agents

Antidiabetic agents

Antiobesity agents

Atherosclerosis

Bladder, neoplasm

Cachexia

Diabetes mellitus

```
Human
     Hypercholesterolemia
       Hyperglycemia
     Hypertension
     Hypertriglyceridemia
     Mammary gland, neoplasm
     Obesity
     Prostate gland, neoplasm
     Psoriasis
     Stomach, neoplasm
        (preparation of 2-aryloxy-2-arylalkanoic acids for diabetes and lipid
        disorders)
                        59-67-6, Nicotinic acid, biological studies
IT
     50-78-2, Aspirin
                                                                      64-77-7,
     Tolbutamide
                   100-55-0, Nicotinyl alcohol 114-86-3, Phenformin
     122-09-8, Phentermine 458-24-2, Fenfluramine
                                                     599-79-1, Azulfidine
     637-07-0, Clofibrate 657-24-9, Metformin
                                                3239-44-9,
     Dexfenfluramine 11041-12-6, Cholestyramine
                                                    22232-71-9, Mazindol
                          25812-30-0, Gemfibrozil
                                                      29094-61-9, Glipizide
     23288-49-5, Probucol
     41859-67-0, Bezafibrate 49562-28-9, Fenofibrate
                                                         50925-79-6, Colestipol
     56180-94-0, Acarbose
                          75330-75-5, Lovastatin 79902-63-9,
     Simvastatin
                   81093-37-0, Pravastatin
                                             93957-54-1, Fluvastatin
     96829-58-2, Orlistat
                            97322-87-7, Troglitazone
                                                      106650-56-0, Sibutramine
                                                            122320-73-4,
     109229-58-5, Englitazone
                               111025-46-8, Pioglitazone
     Rosiglitazone
                    134523-00-5, Atorvastatin
                                                 143201-11-0, Rivastatin
     147098-20-2, ZD-4522
                            147511-69-1, Itavastatin 161600-01-7, MCC-555
     163222-33-1, Ezetimibe
                              213252-19-8, KRP-297
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (combination pharmaceutical; preparation of 2-aryloxy-2-
        arylalkanoic acids for diabetes and lipid disorders)
     9001-62-1, Lipase
                         9027-63-8, Cholesterol acyltransferase
TΤ
     HMG-CoA reductase
                         9033-06-1, Glucosidase 39391-18-9, Cyclooxygenase
     300865-11-6, PTP-1B
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (inhibitor, combination pharmaceutical; preparation of
        2-aryloxy-2-arylalkanoic acids for diabetes and lipid disorders)
=> d 162 6-14 iall abeq tech abex
L62 ANSWER 6 OF 41 WPIX COPYRIGHT 2007
                                               THE THOMSON CORP on STN
ACCESSION NUMBER:
                      2007-294310 [29]
                                         WPIX
CROSS REFERENCE:
                      1997-044618; 1998-448966; 2002-156670
DOC. NO. CPI:
                      C2007-108602 [29]
TITLE:
                      Pharmaceutical composition for the prophylaxis and
                      treatment of diabetes and diabetic complications e.g.
                      diabetic neuropathy comprises insulin sensitivity
                      enhancer in combination with biguanide
DERWENT CLASS:
                      B03; B04
INVENTOR:
                      IKEDA H; ODAKA H; SOHDA T
PATENT ASSIGNEE:
                      (TAKE-C) TAKEDA PHARM CO LTD
COUNTRY COUNT:
                      18
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PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK 1	LA PG	MAIN IPC
EP 1764110	A1 20070321	(200729) * 1	EN 17[01

APPLICATION DETAILS:

KIND PATENT NO APPLICATION DATE ______ _______ EP 1764110 A1 Div Ex EP 1996-304570 19960620 EP 1764110 A1 EP 2006-22352 19960620 FILING DETAILS: PATENT NO KIND PATENT NO EP 1764110 A1 Div ex EP 749751 PRIORITY APPLN. INFO: JP 1995-153500 19950620 INT. PATENT CLASSIF.: IPC ORIGINAL: A61K0031-155 [I,A]; A61K0031-155 [I,C]; A61K0031-4427 [I,C]; A61K0031-4439 [I,A]; A61K0045-00 [I,C]; A61K0045-06 [I,A] BASIC ABSTRACT: EP 1764110 A1 UPAB: 20070504 NOVELTY - A pharmaceutical composition comprises an insulin sensitivity enhancer in combination with a biquanide. ACTIVITY - Antidiabetic; Neuroprotective; Nephrotropic; Ophthalmological; Osteopathic. No biological data given. MECHANISM OF ACTION - Insulin sensitivity enhancer. USE - For the manufacture of pharmaceuticals for the prophylaxis and treatment of diabetes and diabetic complications (claimed) e.g. diabetic neuropathy, nephropathy, retinopathy, macroangiopathy, osteopenia. ADVANTAGE - The insulin sensitivity enhancer reduces the amount of a biguanide and to be administered to a diabetic patient and reduces the side effects of a biguanide. The composition shows a potent depressive effect on diabetic hyperglycemia and shows a stable hypoglycemic effect in long-term therapy with an extremely low risk of side effect. The composition is low in toxicity and can be safely used in mammals and animals. MANUAL CODE: CPI: B06-H; B07-D04C; B07-E01; B07-F01; B10-A07D; B10-A08; B10-A17; B10-B03B; B14-F02; B14-F09; B14-J01; B14-M01C; B14-N01; B14-N03; B14-N10; B14-S04; B14-S09; B14-S18 ORGANIC CHEMISTRY - The insulin sensitivity enhancer is a compound of formula R-(Y)m-(CH2)n-CH(R1)-O-T-A-CH(L)-E1 (I) or its salt. El=a group of formula (ii); R=an optionally substituted hydrocarbon or heterocyclic group (preferably optionally substituted heterocyclic group, especially pyridyl, oxazolyl or thiazolyl (all optionally mono- - trisubstituted by 1-3C alkyl, furyl, thienyl, phenyl or naphthyl); Y=a group of formula CO, CH(OH) or NR3; R3=optionally substituted alkyl; m=0 or 1 (preferably 0); n=0 - 2 (preferably 0 or 1); X=CH or N (preferably CH); A=bond or 1-7C divalent aliphatic hydrocarbon group (preferably bond or (CH2)2); Q=oxygen atom or sulfur atom; R1=hydrogen atom or an alkyl group (preferably H); L,M = hydrogen atom; or L+M = a bond;T=a group of formula (i) (preferably a group of formula (ia)), in which the ring E is optionally mono - tetra-substituted and the substituents are optionally combined with R1 to form a ring; R2=hydroxyl, acyl, amino (all optionally substituted), hydrogen atom,

TECH

alkyl, halogen atom or nitro group (preferably H or 1-4C alkoxy).

PHARMACEUTICALS - Preferred Composition: The insulin sensitivity enhancer and the biguanide are administered concurrently or at staggered times to the same patient. Preferred Components: The biguanide is phenformin, metformin or buformin (preferably metformin).

ABEX WIDER DISCLOSURE - Also disclosed is a pharmaceutical composition comprising the insulin sensitivity enhancer in combination with at least one of alpha-glucosidase inhibitor, an aldose reductase inhibitor, a biguanide, a statin compound, a squalene synthesis inhibitor, a fibrate compound, a low density lipoprotein (LDL) catabolism enhancer or an angiotensin converting enzyme inhibitor.

ADMINISTRATION - The dosage of the insulin sensitivity enhancer for oral administration is 0.01 - 10 (preferably 0.05 - 10, especially 0.05 - 5) mg/kg of body weight or for parenteral administration is 0.005 - 10 (preferably 0.05 - 5, particularly 0.01 - 1) mg/kg.

SPECIFIC COMPOUNDS - Pioglitazone, pioglitazone hydrochloride and 5-((4-(2-(methyl-2-pyridylamino)ethoxy)phenyl)methyl)-2,4-thiazolidinedione are specifically claimed as the insulin sensitivity enhancers.

EXAMPLE - No suitable example is given.

L62 ANSWER 7 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2004-347839 [32] WPIX

CROSS REFERENCE: 2004-282664

DOC. NO. CPI: C2004-132287 [32]

TITLE: New indole derivatives are peroxisome proliferator

activated receptor agonists useful for treating

type 2 diabetes mellitus

DERWENT CLASS: B02; B05

INVENTOR: ACTON J J; BLACK R M; DEBENHAM S D; LIU K; MEINKE P T;

WOOD H B

PATENT ASSIGNEE: (MERI-C) MERCK & CO INC

COUNTRY COUNT: 102

PATENT INFORMATION:

PATENT NO	KIND DATE	KI	WEEK	LA		MAIN IPC
WO 2004020408 AU 2003265681 NO 2005001546 BR 2003013825	A1 20040311 A1 20040319 A 20050524 A 20050712	AI A A	(200432) * (200462) (200545) (200547)	EN EN NO PT	184[0]	
KR 2005057074	A 20050616	A	(200643)	KO		

APPLICATION DETAILS:

PAT	TENT NO	KIND	AP	PLICATION DATE
WO.	2004020408	A1	WO	2003-US26677 20030827
ΑU	2003265681	A1	ΑU	2003-265681 20030827 .
BR	2003013825	A	BR	2003-13825 20030827
NO	2005001546	A	WO	2003-US26677 20030827
BR	2003013825	A	WO	2003-US26677 20030827
NO	2005001546	A	NO	2005-1546 20050323
KR	2005057074	A	WO	2003-US26677 20030827
KR	2005057074	A	KR	2005-703552 20050228

FILING DETAILS:

PATENT	NO	KIND	PATENT NO

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AU 2003265681 A1 Based on WO 2004020408 A
BR 2003013825 A Based on WO 2004020408 A
KR 2005057074 A Based on WO 2004020408 A
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INT. PATENT CLASSIF.:

MAIN: C07D209-12; C07D209-36

IPC RECLASSIF.: A61K0031-403 [I,C]; A61K0031-404 [I,A]; A61P0003-00 [I,C]
; A61P0003-10 [I,A]; C07D0209-00 [I,C]; C07D0209-10 [I,A]
; C07D0209-12 [I,A]; C07D0209-30 [I,A]; C07D0209-36 [I,A]
; C07D0401-00 [I,C]; C07D0401-04 [I,A]; C07D0401-06 [I,A]
; C07D0403-00 [I,C]; C07D0403-12 [I,A]; C07D0405-00 [I,C]
; C07D0405-06 [I,A]; C07D0413-00 [I,C]; C07D0413-04 [I,A]

BASIC ABSTRACT:

WO 2004020408 A1 UPAB: 20060121

NOVELTY - Indole derivatives (I) and their salts are new.

DETAILED DESCRIPTION - Indole derivatives of formula (I) and their salts are new.

R1 = X-aryl-Y-Z or X-heteroaryl-Y-Z (optionally substituted with 1-3
groups of A);

aryl = phenyl or naphthyl;

heteroaryl = monocyclic or fused bicyclic aromatic ring structure (5-6 membered ring) containing 1-4 heteroatoms of N, O or S(O)n;

X = CH2, CH(CH3), C(CH3)2 or 3-6C cycloalkylidene;

Y = CH=CH, CH(OH)CH(OH), OCR7R8, SCR7R8 or CH2CR5R6;

Z = CO2H or tetrazole;

A = 1-4C alkyl, 1-4C alkenyl, O-1-4C alkyl or halo (all optionally substituted with 1-5 halo); either

R5-R8 = H, halo or CO2H; 1-5C alkyl, O-1-5C alkyl, 2-5C alkenyl, O-2-5C alkenyl, 3-6C cycloalkyl or phenyl (all optionally substituted with 1-5 halo) and where 3-6C cycloalkyl or phenyl are further optionally substituted with 1-3 groups selected from 1-3C alkyl or O-1-3C alkyl, and where the 1-3C alkyl or O-1-3C alkyl are optionally substituted with 1-3 halo; or

R7+R8 = 3-6C cycloalkyl optionally substituted by 1-3 halo; or when R1 is X-phenyl-Y-Z, Y is OCR7R8, R7 is H, halo, 1-5C alkyl, O-1-5C alkyl, 2-5C alkyl, O-2-5C alkyl, 3-6C cycloalkyl or phenyl, then R8 may optionally be a 1-2C bridge connected to the phenyl ring at the position ortho to Y, to form a 5-6 membered heterocyclic ring fused to the phenyl ring);

R2 = 1-4C alkyl, optionally substituted with 1-5 halo;

R3 = benzisoxazolyl, benzisothiazolyl, benzpyrazolyl, aryl, C(0) aryl, C(0) heteroaryl, Oaryl, Oheteroaryl, S(0)n aryl or S(0)n heteroaryl, (all optionally substituted with 1-3 substituent group of halo, 1-3C alkyl, O-1-3C alkyl or S-1-3C alkyl (all optionally substituted with 1-5 halo));

R4 = H or halo; 1-5C alkyl or O-1-5C alkyl (both optionally substituted with 1-5 halo);

n = 0-2; and

p = 1-3.

An INDEPENDENT CLAIM is also included for a method for treating type 2 diabetes mellitus comprising administering compound (I) optionally in combination with one or more additional antidiabetic compounds selected from metformin, sulfonylurea, insulin or DP-IV inhibitor, or with a statin selected from simvastatin, lovastatin, rosuvastatin, atorvastatin, fluvastatin, itavastatin, rivastatin and ZD-4522.

ACTIVITY - Antidiabetic.

MECHANISM OF ACTION - Peroxisome proliferator activated receptor (PPAR) agonist.

(I) were assessed for PPAR agonistic activity using transactivation assay. The median effective concentration value of (2R)-2-(3-(4-

methoxybenzoyl) -2-methyl-6-(trifluoromethoxy) -1H-indol-1yl)methyl)phenoxy)propanoic acid (Ia) was 1-3000 nM.

USE - For treating type 2 diabetes mellitus (claimed). (I) may be used alone or in combination with antidiabetic compounds or statins. MANUAL CODE: CPI: B04-J03A; B06-D01; B06-D02; B07-H; B10-A17; B14-L01; B14-S04

TECH

ORGANIC CHEMISTRY - Preparation: No general methods for the preparation of (I) are given.

ABEX DEFINITIONS - Preferred Definitions: - R1 = X-phenyl-Y-Z (of formula (a)); - phenyl = optionally substituted with 1-3 groups of A; - R7, R8 = 1-3C alkyl (optionally substituted with 1-3 halo, or especially unsubstituted); - R6 = 1-3C alkyl or O-(1-3)C alkyl (both optionally substituted with 1-3 halo); - R2 = 1-3C alkyl or CF3 (preferably CH3); - X = CH(CH3), C(CH3)2 or 3-6C cycloalkylidene (preferably a bond or CH2); - Y = OCR7R8 or CH2CR5R6 (preferably OCasteriskR7R8); - Casterisk = S or R configuration; - Z = tetrazole (preferably CO2H); - q = 0-3 (preferably 0 or 1); - R3 = 3-benzisothiazolyl, 3-benzpyrazolyl, C(0) phenyl (optionally substituted by OCH3, OCF3, chloro, CF3 or CH3), O-phenyl, O-heteroaryl (especially pyridyl or quinolyl), S(0)n heteroaryl or S(0)n phenyl, preferably 3-benzisoxazolyl, aryl, C(O)phenyl, C(O)pyridyl or C(O) quinolyl (optionally substituted with 1-3 groups selected from 0-1-3C alkyl or 1-3C alkyl (both optionally substituted with 1-5 halo) or halo); - n = 0-2; - A = CH3, CF3, OCH3, OCF3 or halo; - X, Y, Z = meta or para to each other; - R4 = 1-3C alkyl (preferably, CF3, OCH3, OCF3 or CH3); - p = 0 (preferably 1); - R5 = H (preferred) or 1-3C alkyl; - 1-3C alkyl = optionally substituted with 1-3 halogens.

ADMINISTRATION - Dosage of (I) is 0.1-1000 (preferably 1-50) mg/kg, administered orally, rectally, topically, parenterally, ocularly, pulmonarly or nasally.

SPECIFIC COMPOUNDS - 248 compounds (I) are specifically claimed e.g. (2R) -2-(3-((3-(4-methoxybenzoyl)-2-methyl-6-(trifluoromethoxy)-1H-indol-1yl) methyl) phenoxy) propanoic acid (Ia).

EXAMPLE - 2-Methyl-6-trifluoromethoxyindole (645 mg), 3-bromoanisole (0.456 ml), sodium t-butoxide (404 mg), trisdibenzylidine dipalladium (206 mg) and 2-di-t-butylphosphinobiphenyl (201 mg) were stirred in toluene at 80degreesC and worked up to give 1-(3-methoxy)phenyl-2-methyl-6trifluoromethoxyindole (a). (a) (460 mg) was dissolved in 7 ml of dichloromethane at OdegreesC. Boron tribromide (1.0 N, 2.86 ml) in dichloromethane was added and worked up to give 1-(3-hydroxy)phenyl-2methyl-6-trifluoromethoxyindole (b). (b) (242 mg) was dissolved in methylene chloride (4 ml) and cooled to -20degreesC. A solution of diethylaluminum chloride in toluene (1.8M, 1.23 ml) was added slowly (over 1-2 minutes) and worked up to give 1-(3-hydroxy)phenyl-2-methyl-3-(4methoxy)benzoyl-6-trifluoromethoxyindole (c). (c) (45.9 mg) was dissolved in tetrahydrofuran (0.5 ml) and cooled to OdegreesC. Triphenylphosphine (34 mg), (S)-ethyl lactate (14.7 ml), were then added and worked up to give (2R)-2-(3-(3-(4-methoxy)benzoyl-2-methyl-6-(trifluoromethoxy)-1Hindole-1-yl)phenoxy) propanoic acid ethyl ester (d). (d) (56 mg) was dissolved in ethanol (1 ml) and 25 aqueous sodium hydroxide (0.200 ml). Work-up gave (2R)-2-(3-((3-(4-methoxybenzoyl)-2-methyl-6-(trifluoromethoxy)-1H-indol-1-yl) methyl)phenoxy)propanoic acid (Ia).

L62 ANSWER 8 OF 41 WPIX COPYRIGHT 2007 ACCESSION NUMBER: 2004-098925 [10] DOC. NO. CPI:

TITLE:

WPIX

C2004-040794 [10]

Composition useful in the treatment of e.g. diabetes in multi-layered tablet dosage form comprises a layer-selective of prolonged release containing biguanides and layer-selective of immediate release

THE THOMSON CORP on STN

containing thiazolidinediones

DERWENT CLASS:

A11; A96; B05; B07

INVENTOR:

ANTARKAR A K; GADKARI P N; KAMDAR N M; LALA R G; SHAH J

R; SHAH M J

PATENT ASSIGNEE:

(THEM-N) THEMIS LAB PRIVATE LTD; (THEM-N) THEMIS LAB PVT

 $_{
m LTD}$

COUNTRY COUNT:

99

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
WO 2003105809	A1 2003122	4 (200410)*	EN	26[0]	
AU 2002356419	A1 2003123	1 (200451)	EN		
EP 1515701	Å1 2005032	3 (200521)	EN		•
KR 2005016574	A 2005022	1 (200542)	KO		
US 20060057202	A1 2006031	6 (200620)	EN		
IN 2002000533	I3 2005051	3 (200638)	EN		
IN 2005000179	I3 2006090	8 (200665)	EN		

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
WO 2003105809 A1	WO 2002-IN207 20021014
IN 2002000533 I3	IN 2002-MU533 20020617
AU 2002356419 A1	AU 2002-356419 20021014
EP 1515701 A1	EP 2002-807523 20021014
EP 1515701 A1 .	WO 2002-IN207 20021014
US 20060057202 A1 . ·	WO 2002-IN207 20021014
KR 2005016574 A	KR 2004-720533 20041217
US 20060057202 A1	US 2005-518044 20050817
IN 2005000179 I3 Div Ex	IN 2002-MU533 20020617
IN 2005000179 I3	IN 2005-MU179 20050218

FILING DETAILS:

PATENT NO	KIND		PATENT NO
AU 2002356419		Based on	WO 2003105809 A
EP 1515701 A1		Based on	WO 2003105809 A

PRIORITY APPLN: INFO: IN 2002-MU533

IN 2005-MU179

20020617 20050218

INT. PATENT CLASSIF.:

MAIN:

A61K009-20; A61K009-24; C07D207-30

IPC ORIGINAL:

A61K0031-155 [I,A]; A61K0031-155 [I,C]; A61K0031-426

[I,A]; A61K0031-426 [I,C]; A61K0009-24 [I,A]; A61K0009-24

[I,C]

IPC RECLASSIF.:

A61K0045-00 [I,C]; A61K0045-06 [I,A]; A61K0009-24 [I,A];

A61K0009-24 [I,C]

BASIC ABSTRACT:

WO 2003105809 A1 UPAB: 20060121

NOVELTY - A composition in multi-layered tablet dosage form capable of layer-selective prolonged release of at least one active pharmaceutical ingredient (API) comprising biguanides and layer-selective of immediate release of another API comprising thiazolidinediones, sulfonyl ureas, alphaglucosidase inhibitor, aldose reductase inhibitor, statins compound, squalene synthesis inhibitor, fibrates, angiotensin converting enzymes inhibitor or low density lipoprotein (LDL) catabolism enhancers.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for preparation of multi-layered tablet dosage of composition involving screening and sizing separately prepared granules containing biguanide or its salt and (API) or their salts followed by treating with lubricants and compressing.

ACTIVITY - Antidiabetic.

MECHANISM OF ACTION - Glucose absorption inhibitor; Hepatic gluconeogenesis suppressor; Fatty acid oxidation inhibitor.

USE - For the preparation of multi-layered/bi-layered tablets useful as antihyperglycemic (claimed), especially for preventing Type 2 diabetes mellitus.

ADVANTAGE - The granules of the biguanide prolonged release layer formed can be stored for prolonged period without change in compression characteristic and can be effectively compressed into a multi-layered tablet system exhibiting pH independent prolonged release of biguanide. The bilayer tablet has hardness of 6 - 12 kg/cm2 and low friability of less than 1% without capping. The composition is patient convenient, cost effective and capable of prolonging release of one of the two drugs in a single dosage form without affecting granule characteristics. The tablet can be prepared in smaller size that is convenient to swallow than those prepared in prior art using biphasic granules. MANUAL CODE: CPI: A12-V01; B06-A01; B07-D04; B07-F01; B10-A17;

B14-F09; B14-S04

TECH

PHARMACEUTICALS - Preferred Components: The biguanides are Metformin, Buformin and Phenformin or their salts (preferably Metformin hydrochloride). The thiazolidinediones are Pioglitazone, Rosiglitazone, Troglitazone or their salts (preferably Pioglitazone HCl). Preferred Composition: The composition comprises thiazolidinediones (5 - 30 wt.%) and biguanides (1 - 10 wt.%) or Metformin HCl (500 - 2000 mg) and Pioglitazone HCl (15 - 60 mg). Preferred Tablet: The layers of the tablet are parallel to each other, one layer is only partially covered by the next layer. The multilayer tablet is enrobed by soft gelatin ribbons for additional protection against oxidation, photodegradation, identification, ease of swallowing, taste masking and for aesthetic appeal without altering the dissolution profile. Preferred Method: The method involves:

- (1) pulverizing the biguanide e.g. Metformin HCl to particle size of less than 100 microns and comprises at least 48 (preferably over 50)% of the formulation composition;
- (2) blending Metformin HCl with non-biodegradable, inert polymer in mixers such as planetary mixers, octagonal blenders, V blenders or rapid mixer granulators or fluid bed granulators;
- (3) blending wet granulated API-polymer using a solvent optionally containing binders and plasticizers, in the presence of a granulation solvent such as water or hydroalcoholic solution;
- (4) drying the granulated mass followed by sizing using comminuting mill such as Fitz mill or oscillating granulator or any other equipment with an appropriate mesh preferably around 1-mm mesh; and
- (5) drying the granules and mixing with Talc, magnesium stearate and colloidal silicon dioxide.

The particle size of Pioglitazone HCl used is less than 30 microns. The pioglitazone HCl is blended with fillers, disintegrants, binders, lubricants and permitted colors carried out in planetary mixer, octagonal blender, double cone blender, rotary mixer granulator, drum mixer, ribbon blender, fluid bed processor or any other suitable mixer. For the preparation of the pharmaceutical compositions in multi-layered/bi-layered tablet, the nominal viscosity at 20degreesC of a 2 wt./wt.% aqueous solution of hydroxypropylmethylcellulose used is not less than 3000 cP, the nominal viscosity of a 1 wt./wt.% aqueous solution of sodium alginate at 20degreesC is not less than 50cP, the nominal viscosity of a 1 wt./wt.% aqueous dispersion of guar gum is not less than 2000 cP, the nominal

viscosity at 25degreesC of a 1 wt./wt.% aqueous solution of

hydroxypropylcellulose is not less than 1500 cP; hydroxyethylcellulose is not less than 1500 cP; sodium carboxymethylcellulose is not less than 1500 cP and xanthan gum is not less than 1200 cP. The preparation of granules containing biguanide or its salt capable of being compressed to a tablet dosage form with pH independent prolonged release of biguanide at the end of 1, 4, and 8 hours lies in the range of 25 - 45%, 50 - 80% and not less than 75% respectively and that containing (API) or their salts is less than 80% at the end of 30 minutes. POLYMERS - Preferred Components: The non-biodegradable, inert polymers are selected from cellulose derivatives, (meth)acrylic acid co-polymers, Xanthan gum, Guar gum, Alginates and/or their salts. The cellulose derivative is alkylcellulose (preferably methylcellulose or ethyl cellulose), hydroxyalkylcellulose (preferably hydroxymethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropylmethylcellulose or methylhydroxyethylcellulose) and/or carboxyalkylcellulose (preferably carboxymethylcellulose, sodium carboxymethylcellulose or calcium carboxymethylcellulose) and is incorporated in at least 35 (preferably 40 - 65) wt.% of the biguanide. The (meth)acrylic acid co-polymers are selected from esters of ethyl acrylate and methyl methacrylate, ethyl ammonium methacrylate and ethyl acrylate copolymers, ethylammonium methacrylate and methyl methacrylate copolymers, ethyl ammonium methacrylate and ethyl methacrylate copolymers, methacrylic acid and ethyl acrylate copolymers methacrylic acid and methyl methacrylate copolymers or alginate and their sodium or calcium salts. The binary combinations of the polymers are selected from combinations of hydroxypropylmethylcellulose and hydroxypropylcellulose; hydroxypropylmethylcellulose and hydroxyethylcellulose; hydroxypropylmethylcellulose and sodium carboxymethylcellulose; hydroxypropylmethylcellulose and sodium alginate; hydroxypropylmethylcellulose and Xanthan gum or hydroxypropylmethylcellulose and guar gum in the ratios of about 1:0.01 -1:3.5. A combination of three polymers hydroxypropylmethylcellulose, sodium carboxymethylcellulose and methacrylic acid copolymer is used in ratios of 1:0.01:0.1 - 1:3.5:0.5 respectively. The disintegrating agents are selected from starch, sodium starch glycollate, crosscarmellose sodium, crosspovidone, pregelatinized starch, microcrystalline cellulose or hydroxypropylcellulose.

ABEX ADMINISTRATION - Administration of multi-layered tablet is once a day (claimed). Dosage of Metformin HCl per tablet is 250 - 2000 (preferably 500) mg and that of Pioglitazone HCl is 15 - 60 (preferably 15 - 30) mg 1 - 4 tablets/day.

EXAMPLE - A tablet composition containing prolonged release layer and immediate release layer was prepared. The prolonged release layer comprising (wt.%): metformin HCl (60), hydroxypropylmethylcellulose K4M (RTM) (37), polyvinylpyrrolidinone K30 (0.75), talc (0.5), colloidal silicon dioxide (1.5), magnesium stearate (0.25), isopropyl alcohol (qs) and purified water (qs) was prepared and compressed with an immediate release layer comprising (wt.%): pioglitazone HCl (20.05), microcrystalline cellulose (24), sodium starch glycollate (10), L-HPC (LH 21) (9), lactose (28.6), hydroxypropylmethylcellulose (1.2), talc (1.8), colloidal silicon dioxide (3.65), magnesium stearate (0.5) and lake colorant (1.2). The tablet when tested for in-vitro dissolution and drug release profile showed more than 85% of drug released after 10 minutes.

L62 ANSWER 9 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP ON STN ACCESSION NUMBER: 2003-403290 [38] WPIX

DOC. NO. CPI: C2003-107479 [38]

TITLE:

Use of leptin, its analog or derivative for treatment of metabolic abnormalities associated with lipoatrophy or

acquired form of lipoatrophy disease in human patient

DERWENT CLASS:

PATENT ASSIGNEE:

B04

INVENTOR:

DEPAOLI A M; GARG A; GARG A T S M C; ORAL E A; TAYLOR S I (TEXA-C) UNIV TEXAS SYSTEM; (AMGE-N) AMGEN INC; (USSH-C)

US DEPT HEALTH & HUMAN SERVICES

COUNTRY COUNT:

100

PATENT INFORMATION:

PA'	TENT NO	KINI	DATE	WEEK	LA	PG	MAIN	IPC
EP AU US JP MX	2003034996 1444516 2002359288 20050020496 2005506994 2004003773 7183254	A2 A1 A1 W A1	20030501 20040811 20030506 20050127 20050310 20040801 20070227	(200460) (200509) (200518) (200548)	EN EN EN EN JA ES	19[4] 66		 -
	20070099836		20070503		EN			

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
WO 2003034996 A2	WO 2002-US33875 20021022
US 20050020496 A1 Provisional	US 2001-336394P 20011022
US 7183254 B2 Provisional	US 2001-336394P 20011022
AU 2002359288 A1	AU 2002-359288 20021022
EP 1444516 A2	EP 2002-793811 20021022
US 20050020496 A1 Cont of	
US 7183254 B2 Cont of	US 2002-279129 20021022
EP 1444516 A2	WO 2002-US33875 20021022
JP 2005506994 W	WO 2002-US33875 20021022
MX 2004003773 A1	WO 2002-US33875 20021022
JP 2005506994 W	JP 2003-537565 20021022
US 20050020496 A1	US 2003-623189 20030718
US 7183254 B2	US 2003-623189 20030718
MX 2004003773 A1	MX 2004-3773 20040422
US 20070099836 A1 Provisional .	US 2001-336394P 20011022
US 20070099836 A1 Cont of	US 2002-279129 20021022
US 20070099836 A1 Div Ex	US 2003-623189 20030718
US 20070099836 A1	US 2006-606805 20061129

FILING DETAILS:

PATENT NO	KIND	PATENT NO		
EP 1444516	A2 Based on	WO 2003034996 A		
AU 2002359288	A1 Based on	WO 2003034996 A		
JP 2005506994	W Based on	WO 2003034996 A		
MX 2004003773	Al Based on	WO 2003034996 A		
US 20070099836	Al Div ex	US 7183254 B		
PRIORITY APPLN. INFO:	US 2001-336394P	20011022		
	US 2002-279129	20021022		
	US 2003-623189	20030718		
	US 2006-606805	20061129		
INT. PATENT CLASSIF.:	•			
MATN.	761K-00 · 761K038-22			

MAIN: A61K-00; A61K038-22

SECONDARY: A61K045-00; A61P003-04; A61P003-10; A61P043-00;

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G01N033-53

A61K0038-00 [I,A]; A61K0038-00 [I,C]; A61K0038-16 [I,A];
A61K0038-16 [I,C]; A61K0038-18 [I,A]; A61K0038-18 [I,C];
A61K0038-19 [I,A]; A61K0038-19 [I,C]; A61P0003-00 [I,C];
A61P0003-06 [I,A]; A61P0003-10 [I,A]; C07K0014-00 [I,A];
C07K0014-00 [I,C]; G01N0033-53 [I,A]; A61K0038-17 [I,A];
A61K0038-17 [I,C]

IPC RECLASSIF.:

A61K0038-22 [I,A]; A61K0038-22 [I,C]; A61K0038-55 [I,A];
A61P0003-00 [I,C]; A61P0003-04 [I,A]; A61P0003-10 [I,A];
A61P0043-00 [I,A]; A61P0043-00 [I,C]; G01N0033-53 [I,A];
G01N0033-53 [I,C]; G01N0033-74 [I,A]; G01N0033-74 [I,C]
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BASIC ABSTRACT:

WO 2003034996 A2 UPAB: 20060119

NOVELTY - In the treatment of metabolic abnormalities associated with lipoatrophy or acquired form of the lipoatrophy disease, a leptin (I), its analog or derivative is used.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) determination of a predisposition of a lipoatrophic patient to respond to treatment with (I), its analog or derivative involves: determining a leptin level in the patient prior to the treatment using an antibody immunoassay and then, either:
 - (a) ascertaining whether the leptin level is at most 4 ng/ml, or
- (b) ascertaining whether the leptin level of a male patient is at most 2 ng/ml, or a female patient is at most 4 ng/ml;
- (2) treatment of lipoatrophy involves a pharmaceutical regimen comprising a combination of either:
 - (A) (I), its analog or derivative and protease inhibitor, or
- (B) (I), its analog or derivative and at least one compound selected from thiazolidinediones, fibrates, statins and metformin; and
- (3) a kit for determining the predisposition of a human patient with lipoatrophy to respond to treatment with (I), its analog or derivative comprises a device for determining whether the leptin level of the patient prior to the leptin treatment is at most 2 or at most 4 ng/ml in a male or female patients respectively.

ACTIVITY - Antilipemic; Antidiabetic; Antiarteriosclerotic; Vasotropic; Anti-HIV.

MECHANISM OF ACTION - Gene therapy.

USE - For the treatment of metabolic abnormalities associated with lipoatrophy or acquired form of the lipoatrophy disease related to treat the HIV positive patient with highly active antiretroviral therapy (HAART); for determining a predisposition of a lipoatrophic patient to respond to treatment with (I), its analog or derivative (all claimed); in hormone replacement therapy in lipoatrophic patients having reduced serum concentration of leptin; in gene therapy. The metabolic abnormalities associated with lipoatrophy includes hyperglycemia, dyslipidemia, hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, atherosclerosis, vascular restenosis, and insulin resistance.

ADVANTAGE - (I) causes weight loss in obese individuals except in the state of congenital leptin deficiency and is feasible in the lipoatrophy. (I) dramatically improves glucose and triglyceride metabolism evens after all other potential therapies have been extinguished and the baseline serum concentration of leptin is less than 4 ng/ml.

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MANUAL CODE: CPI: B04-C01G; B04-G01; B04-M01; B04-N02; B10-A17; B11-C04; B11-C07A; B12-K04A2; B14-F01G; B14-F06; B14-F07; B14-F10; B14-S03A; B14-S04
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ABEX ADMINISTRATION - (I) is administered in a dosage of 0.02 mg/kg of body weight per day for males of all ages, about 0.03 mg/kg/day for females under 18 years and about 0.04 mg/kg/day for adult females subcutaneously,

systemically, orally, pulmonarily, nasally or transdermally. EXAMPLE - Serum leptin concentrations of 146 HIV positive men were compared before and after highly active antiretroviral therapy (HAART). By physical examination, the men were assessed and stratified into the two major phenotypes: lipoatrophy alone and lipoatrophy with central fat gain (mixed HIV-LS). Out of the 146 men, 42 men were found to have moderate or severe lipoatrophy or lipohypertrophy in more than one body area following HAART; 27 of the 146 had lipoatrophy alone and 15 had mixed changes after HAART; and 39 out of the 146 did not have body habitus changes and these patients served as controls. The men with HIV-LS were older and had longer use of protease inhibitors. They also had lower baseline CD4 counts and had lost an average of 4 kg body weight from baseline. Before HAART, median baseline leptin levels for both the lipoatrophy and mixed groups were 3.6 ng/ml and median leptin level for the control was 4.1 ng/ml. In those who developed lipoatrophy alone after HAART, serum leptin concentration decreased significantly from 3.6 - 2.8 ng/ml. On the other hand, the serum leptin levels remained stable in both the mixed HIV-LS groups (4 ng/ml) and in the 39 HIV positive controls who did not develop HIV-LS (3.7 ng/ml). Thus the data suggest that a reduced leptin level following the (HAART) in HIV positive patients, which contributed to the development of lipoatrophy.

L62 ANSWER 10 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER:

2003-778406 [73] WPIX

DOC. NO. CPI:

C2003-214184 [73]

TITLE:

Dosage unit useful for treating diabetes and hyperglycemia comprises insulin secretion

stimulant or antihyperglycemic biguanide compound in combination with 3-hydroxy-3-methyl-glutaryl-coenzyme A

reductase inhibitor

DERWENT CLASS:

B03

INVENTOR:

FREESE L M; GORHAM T R; WHEELER-DAVIS J A

PATENT ASSIGNEE:

(UPSH-N) UPSHER-SMITH LAB INC

COUNTRY COUNT:

28

PATENT INFORMATION:

		KIND DATE			MAIN IPC
		A1 20030911	•		
WO	2003075933	A1 20030918	(200373) EI	V	

APPLICATION DETAILS:

PATENT NO	KIND	API	PLICATION	DATE
			-	,
US 20030171407	A1	US	2002-94004	20020307
WO 2003075933 A	A1	WO	2003-US6937	20030306

PRIORITY APPLN. INFO: US 2002-94004 20020307

INT. PATENT CLASSIF.:

IPC RECLASSIF.: A61K0031-366 [I,A]; A61K0031-366 [I,C]; A61K0031-64 [I,A]

; A61K0031-64 [I,C]; A61K0045-00 [I,C]; A61K0045-06 [I,A]

; A61P0003-00 [I,C]; A61P0003-06 [I,A]; A61P0003-10 [I,A]

BASIC ABSTRACT:

US 20030171407 A1 UPAB: 20060120

NOVELTY - A pharmaceutical dosage unit comprises an insulin secretion stimulant or an antihyperglycemic biguanide compound in combination with a 3-hydroxy-3-methyl-glutaryl-coenzyme A (HMG-CoA) reductase inhibitor.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for reducing the number of dosages administered to a diabetic patient by utilizing a combination of active agents by:

- (1) combining in a single dosage unit an insulin secretion stimulant and HMG-CoA reductase inhibitor; and
 - (2) administering to a diabetic patient.

ACTIVITY - Antidiabetic.

No biological data given.

MECHANISM OF ACTION - Insulin secretion stimulant; 3-Hydroxy-3-methylglutaryl-coenzyme A (HMG-CoA) reductase inhibitor.

USE - The dosage unit is used for treating a diabetic patient (claimed), and hyperglycemia.

ADVANTAGE - At least one component of the dosage unit exhibits sustained-release properties; and the dosages required in the treatment of diabetes are less.

MANUAL CODE:

CPI: B05-A01B; B06-D01; B07-A02B; B07-D02; B07-D10; B07-D12; B10-A08; B10-A17; B10-C04; B14-D05D; B14-F09;

B14-S04

TECH

PHARMACEUTICALS - Preferred Dosage unit: The dosage unit comprises glipizide (5-10 mg) and simvastatin (20-40 mg). Preferred Components: The insulin secretion stimulant is a sulfonylurea drug (preferably glipizide, glimepiride or glyburide, especially glipizide). The HMG-CoA reductase inhibitor is a statin drug (preferably simvastatin, atorvastatin calcium, fluvastatin sodium, lovastatin, pravastatin sodium or rosuvastatin calcium, especially simvastatin). The antihyperglycemic biquanide compound is metformin hydrochloride.

ABEX ADMINISTRATION - The dosage unit is administered orally in the form of e.g. tablet or capsule. A daily dosage for insulin secretion stimulant (e.g. glipizide) is 2.5-40 mg; dosage for HMG-CoA reductase inhibitor (e.g. simvastatin) is 5-80 mg; and dosage for antihyperglycemic biguanide compound (e.g. metformin hydrochloride) is 1500-2550 mg. EXAMPLE - None given.

L62 ANSWER 11 OF 41 WPIX COPYRIGHT 2007

THE THOMSON CORP on STN

ACCESSION NUMBER:

2002-444013 [47] WPIX

DOC. NO. CPI:

C2002-126369 [47]

TITLE:

New benzopyrancarboxylic acid derivatives, useful for treating e.g. cachexia, non-insulin dependent diabetes

mellitus, hyperglycemia, obesity, dyslipidemia,

hypercholesterolemia or atherosclerosis

DERWENT CLASS:

PATENT ASSIGNEE:

INVENTOR:

BOUERES J K; DESAI R C; KOYAMA H; MILLER D J; SAHOO S P (BOUE-I) BOUERES J K; (DESA-I) DESAI R C; (KOYA-I) KOYAMA H; (MERI-C) MERCK & CO INC; (MILL-I) MILLER D J; (SAHO-I)

SAHOO S P

COUNTRY COUNT:

95

PATENT INFORMATION:

PATENT NO		KIND DATE		WEEK	LA	PG	MAIN IPC	
WO	2002026729	A2	20020404	(200247)*	EN	87 [0]		<
US	20020082292	A1	20020627	(200249)	EN			<
AU	2001092874	A	20020408	(200252)	EN			<
EP	1324995	A2	20030709	(200345)	EN			
US	6645997	B2	20031111	(200382)	EN			
JP	2004513090	W	20040430	(200430)	JA	158		
AU	2001292874	B2	20060615	(200705)	EN			

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE
WO 2002026729 A2	WO 2001-US29456 20010921
US 20020082292 A1 Provisional	US 2000-235708P 20000927
US 6645997 B2 Provisional	US 2000-235708P 20000927
US 20020082292 Al Provisional	US 2000-244697P 20001031
US 6645997 B2 Provisional	US 2000-244697P 20001031
AU 2001092874 A	AU 2001-92874 20010921
EP 1324995 A2	EP 2001-973277 20010921
EP 1324995 A2	WO 2001-US29456 20010921
JP 2004513090 W	WO 2001-US29456 20010921
US 20020082292 A1	US 2001-961841 20010924
US 6645997 B2	US 2001-961841 20010924
JP 2004513090 W	JP 2002-531113 20010921
AU 2001292874 B2	AU 2001-292874 20010921
·	

FILING DETAILS:

PAT	TENT NO	KIND				PAT	ENT NO	
ΑU	2001092874	A	Based	on		wo	2002026729	A
ΕP	1324995	A2	Based	on		WO	2002026729	Α
JP	2004513090	W	Based	on.		WO	2002026729	Α
ΑU	2001292874	B2	Based	on	,	WO	2002026729	A

PRIORITY APPLN. INFO: US 2000-244697P 20001031

US 2000-235708P 20000927

US 2001-961841 20010924 ·

INT: PATENT CLASSIF.:

MAIN: C07D311-66

SECONDARY: A61K031-353; A61K045-00; A61P001-00; A61P001-04; A61P001-18; A61P013-00; A61P013-08; A61P015-00; A61P017-00; A61P017-06; A61P017-10; A61P025-00; A61P025-28; A61P027-02; A61P029-00; A61P003-04; A61P003-06; A61P003-10; A61P035-00; A61P037-02;

A61P007-00; A61P009-00; A61P009-10; A61P009-12

IPC ORIGINAL: C07D0311-00 [I,C]; C07D0311-66 [I,A]

IPC RECLASSIF.: A61K0031-352 [I,C]; A61K0031-353 [I,A]; A61K0045-00 [I,A]; A61K0045-00 [I,C]; A61P0001-00 [I,A]; A61P0001-00 [I,A]; A61P0001-00 [I,A]; A61P00013-00 [I,A]; A61P00013-00 [I,A]; A61P0013-00 [I,A]; A61P0013-00

; A61P0013-00 [I,C]; A61P0013-08 [I,A]; A61P0015-00 [I,A]; A61P0015-00 [I,C]; A61P0017-00 [I,A]; A61P0017-00

; A61P0017-06 [1,A]; A61P0017-10 [1,A]; A61P0025-00 [1,A]; A61P0025-00 [1,C]

; A61P0027-02 [I,A]; A61P0029-00 [I,A]; A61P0029-00 [I,C]; A61P0003-00 [I,C]; A61P0003-04 [I,A]; A61P0003-06 [I,A]

; A61P0003-10 [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C]

; A61P0037-00 [I,C]; A61P0037-02 [I,A]; A61P0007-00 [I,A]; A61P0007-00 [I,C]; A61P0009-00 [I,A]; A61P0009-00 [I,C]

; A61P0009-10 [I,A]; A61P0009-12 [I,A]; C07D0311-00 [I,C]

; C07D0311-66 [I,A]

BASIC ABSTRACT:

WO 2002026729 A2 UPAB: 20050526

 ${\tt NOVELTY}$ - ${\tt Benzopyran\text{-}carboxylic}$ acid derivatives and their salts and prodrugs are new.

DETAILED DESCRIPTION - Benzopyran-carboxylic acid derivatives of formula (I) and their salts and prodrugs are new:

Z' = CH2 or CO;

R1, R2, R3, R5, R6, R7, R8, R9, R10 = e.g. H, OH, optionally substituted, optionally unsaturated alkyl or aryl;

R4 = e.g. aryloxy; and

X, Y = e.g. O, S, SO, SO2, CH2 or optionally substituted NH.

Full definitions are given in the DEFINITIONS (Full Definitions and Preferred Definitions) section. INDEPENDENT CLAIMS are included for:

- (1) Compositions comprising (I) and a therapeutic agent (as below);
- (2) Method for disease where insulin resistance is a component, comprises administration of (I) and a theraputic agent:
 - (a) insulin sensitizers:
- (i) peroxisome proliferator acitvated receptor- gamma (PPARgamma) agonists, e.g. giltazones;
 - (ii) biguanides, e.g. metformin or phenformin;
 - (iii) protein tyrosine phosphatase-1B; and
 - (iv) dipeptidyl peptide IV inhibitors;
 - (b) insulin or insulin mimetics;
 - (c) sulfonylureas, e.g. tolbutamide or glipizide;
 - (d) alpha-glucosaidase inhibitors;
 - (e) cholesterol lowering agents;
 - (i) HMG-CoA reductase inhibitors;
 - (ii) sequestrants, e.g. cholestyramine or colestipol;
 - (iii) nicotinyl alcohol;
 - (iv) PPARalpha agonists;
 - (v) PPARalpha/gamma dual agonists;
 - (vi) inhibitors of cholesterol absorption, ezetimibe;
- (vii) acyl CoA, cholesterol acetyl transferase inhibitors, e.g. avasimibe; and ${\bf r}$
 - (viii) anti-oxidants, e.g. probucol;
 - (f) PPARdelta agonists;
- (g) antiobesity compounds, e.g. fenfluramine, dexfenfluramine, phenterminw, sibutramine, mazindol, orlistat, lipase inhibitors, neuropeptide Y5 inhibitors or beta-3 adrenergic receptor agonists;
 - (h) ileal bile acid transporter inhibitor; and
 - (i) inflammatory agent.

ACTIVITY - Immunomodulator; Antidiabetic; Anorectic; Antilipemic; Antiarteriosclerotic; Vasotropic; Antiinflammatory; Antiulcer; Cytostatic; Nootropic; Neuroprotective; Antipsoriatic; Antiseborrheic; Dermatological; Hypotensive.

No biological data available.

MECHANISM OF ACTION - PPARalpha agonist; PPARgamma agonist. No biological data available.

USE - (I) are useful for treating cachexia, non-insulin dependent diabetes mellitus, hyperglycemia, impaired glucose tolerance, insulin resistance, obesity, lipid disorders, dyslipidemia, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia, low HDL levels, high LDL levels, atherosclerosis, vascular restenosis, irritable bowel syndrome, inflammatory bowel disease, Crohn's disease, ulcerative colitis, inflammatory conditions, pancreatitis, abdominal obesity, neurodegenerative disease, retinopathy, neoplastic conditions, adipose cell tumors, adipose cell carcinomas, prostate cancer, gastric cancer, breast cancer, bladder cancer, colon cancer, angiogenesis, Alzheimer's disease, psoriasis, acne vulgaris, skin diseases modulated by PPAR, high blood pressure, syndrome X and ovarian hyperandrogenism. MANUAL CODE:

CPI: B06-A01; B14-D02A2; B14-E10C; B14-F02; B14-F06;

B14-F07; B14-H01; B14-J01A2; B14-J01A4; B14-L01; B14-N13; B14-N17C; B14-S04

TECH

ORGANIC CHEMISTRY - Preparation: By reacting a substituted benzopyran carboxylate with an aryl derivative.

PHARMACEUTICALS - Preferred Therapeutic agent: The therapeutic agent is

preferably beta-hydroxy-beta-methylglutaryl (HMG) -CoA reductase inhibitor, e.g. statin. Statin is lovastatin, simvastatin, pravastatin, fluvastatin, atorvasatin, itavastatin, ZD-4522 or rivastatin.

ABEX DEFINITIONS - Full Definitions: - Z = CH2 or CO; - R1 = H, OH, 1-7C alkyl, 2-7C alkenyl, 2-7C alkynyl, 1-3C alkyloxy, 2-3C alkenyloxy, 2-3C alkynyloxy, F, Br, Cl or Ar (all optionally substituted by 1-7 of halo and/or up to 3 of 1-3C alkyloxy (optionally substituted by up to 5 of halo) or phenyl (optionally substituted by up to 3 of halo, 1-5C alkyl (optionally substituted by up to 5 of halo) or 1-3C alkyloxy (optionally substituted by up to 5 of halo)) or R1 = CR11R12 and forms a cyclopropane ring on the heterocyclic ring); - R11, R12 = H, halo, 1-5C alkyl, 2-5C alkenyl, 2-5C alkynyl, 1-3C alkyloxy, 2-3C alkenyloxy, 2-3C alkynyloxy, COOH, 1-5C alkyloxycarbonyl, 2-5C alkenyloxycarbonyl, 2-5C alkynyloxycarbonyl (all optionally substituted by up to 5 of halo and/or up to 3 of OCH3 or OCF3) or phenyl optionally substituted by up to 3 of halo, 1-5C alkyl or 1-3C alkyloxy (all optionally substituted by up to 5 of halo); - Ar = Aryl, Hetcyc, Hetaryl or Benzoheterocycle (all optionally substituted by up to 5 of halo, 1-5C alkyl, 2-5C alkenyl, 2-5C alkynyl, 1-5C alkyloxy, 2-5C alkenyloxy, 2-5C alkynyloxy, SOx-(1-5C alkyl), SOxNRaRb, SOx-phenyl, 1-3C alkylcarbonyl or CONRaRb in which each alkyl, alkenyl and alkynyl is optionally substituted by up to 5 of halo and/or up to 2 of 1-3C alkyloxy optionally substituted by up to 5 of halo and each phenyl is optionally substituted by up to 3 of halo, 1-3C alkyl or 1-3C alkoxy all optionally substituted by up to 5 of halo and in which each Hetcyc and Benzoheterocycle is optionally substituted by 3-6C spirocycloalkyl optionally substituted by up to 2 of CH3, CF3, OCH3, OCF3 or halo); -x = 0 - 2; -Aryl = 6 - 10-membered monocyclic or bicyclic aromatic system; - Hetcyc = 5- or 6-membered optionally partially unsaturated monocyclic heterocycle with 1 to 4 heteroatoms (N, S or O) in which N may optionally be NRa and S is optionally SO or SO2; - Hetaryl = 5- or 6-membered heteroaromatic ring heterocycle with 1 to 4 heteroatoms (N, S or O) in which N may optionally be NRa and S is optionally SO or SO2; - Benzoheterocycle = optionally unsaturated 5- or 6-membered heterocyclic ring (with 1 to 3 heteroatoms (N, S or O) in which N may optionally be NRa and S is optionally SO or SO2) fused to a benzene ring; - Ra, Rb = H, 1-5C alkyl, 2-5C alkenyl, 2-5C alkynyl; 1-5C alkylcarbonyl, 2-5C alkenylcarbonyl, 2-5C alkynylcarbonyl, SOx-(1-5C alkyl), SOx-phenyl, SOXNRdRe, CONRdRe, halo or phenyl in which each alkyl, alkenyl and alkynyl are optionally substituted by 1 to 5 of halo and/or 1-3 of OCH3, OCF3 or phenyl and in which the phenyl is optionally substituted by up to 3 of halo, 1-3C alkyl, 1-3C alkoxy all optionally substituted by up to 5 of halo; - Rd, Re = H, 1-5C alkyl, 2-5C alkenyl, 2-5C alkynyl or phenyl in which each alkyl, alkenyl and alkynyl are optionally substituted by 1 to 5 of halo and/or 1-3 of OCH3, OCF3 or phenyl and in which the phenyl is optionally substituted by up to 3 of halo, 1-3C alkyl, 1-3C alkoxy all optionally substituted by up to 5 of halo; - X, Y = O, S, SO, SO2, NRa or CH2; - n = 1 to 6; - R2, R3, R5, R6, R7, R8, R9, R10 = H, halo, 1-7C alkyl, 2-7C alkenyl, 2-7C alkynyl, OH, 1-5C alkyloxy, 2-5C alkenyloxy, 2-5C alkynyloxy, 1-5C alkylcarbonyl, 2-5C alkenylcarbonyl, 2-5C alkynylcarbonyl; 1-5C alkoxycarbonyl, 2-5C alkenyloxycarbonyl, 2-5C alkynyloxycarbonyl, 1-5C alkylcarbonyloxy, 2-5C alkenylcarbonyloxy, 2-5C alkynylcarbonyloxy, Ar, OAr, COAr, COOAr, OCOAr, 3-8C cycloalkyl, 3-8C cycloalkyloxy, SOx-(1-5C alkyl), SOxNRaRb, SOxAr, CONRaRb in which each alkyl, alkenyl and alkynyl is optionally substituted by up to 5 of halo, up to 2 of 1-3C alkyloxy optionally substituted by up to 5 of halo and/or Ar or 3-6C cycloalkyl; and - R4 = OAr. - Preferred Definitions: - X, Y = O; - group-X = attached at position 6- or 7- of benzopyran ring; - Z' = CH2 or C=0; - n = 2 - 4; - Ra, Rb = H or 1-5C alkyl, C(0)1-5C alkyl, S(0)x1-5C alkyl (linear or branched alkyl optionally substituted by 1-5

halo atoms) or S(0) xphenyl or phenyl (both optionally substituted by 1-3 of halo, 1-3C alkyl (optionally substituted by 1-5 halo atoms) or 1-3C alkoxy); - R1 = Cl, F or 1-4C alkyl (linear or branched and optionally substituted by 1-5 F); - R2 = Cl, Br or F; and - R3, R5, R6, R7, R8, R9, R10 = H.

ADMINISTRATION - 0.1 to 100 mg/kg/day, preferably orally, rectally, topically, parenterally, ocularly, pulmonarily or nasally.

SPECIFIC COMPOUNDS - 29 Compounds (I) are claimed, e.g.
7-(3-(4-Phenoxy-2-propyl-phenoxy)-propoxy)-chroman-2-carboxylic acid (Ia).
EXAMPLE - A suspension of ethyl 7-hydroxychromone-2-carboxylate (675.4 g) in ethanol (EtOH) (4000 ml) and concentrated hydrochloric acid (HCl) (40 ml) was hydrogenated over 5% Pd/C (68 g) at 40psi overnight. Work up gave ethyl 7-hydroxychroman-2-carboxylate (630.1 g) (a). - A mixture of (a) (100 mg), 4-(3-bromopropoxy)-3-propylphenyl phenyl ether (188 mg), cesium carbonate (Cs2CO3) (176 mg) and dimethylformamide (DMF) (3 ml) was stirred at 70degreesC for 5 hours. Work up gave ethyl 7-(3-(2-propyl-4-phenoxyphenoxy)-propoxy)-chroman-2-carboxylate (167 mg) (b). - A solution of (b) (40 mg) in 2-propanol (2 ml) and 2M sodium hydroxide (NaOH) (1 ml) was stirred at 70degreesC overnight. The mixture was concentrated and diluted with ethyl acetate (EtOAc) and 2M HCl.Work-up gave 7-(3-(4-Phenoxy-2-propyl-phenoxy)-propoxy)-chroman-2-carboxylic acid (Ia) (38 mg).

L62 ANSWER 12 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER:

2002-241560 [29] WPIX

DOC. NO. CPI:

C2002-072652. [29]

TITLE:

New N-substituted indoles useful in the treatment of e.g.

non-insulin dependent diabetes mellitus,

hyperglycemia and dyslipidemia

:,.

DERWENT CLASS:

B02

INVENTOR:

ACTON J J; BLACK R M; JONES A B; WOOD H B; ACTON J

PATENT ASSIGNEE:

(ACTO-I) ACTON J J; (BLAC-I) BLACK R M; (JONE-I) JONES A

B; (MERI-C) MERCK & CO INC; (WOOD-I) WOOD H B

COUNTRY COUNT:

PATENT INFORMATION:

·PAT	TENT NO	KIN	DATE	WEEK	LA	PG	MAIN	IPC	
US	20020042441	A1	20020411	• • • •	EN	73 [0]	·		<
US	2001077056 6525083 1305285	B2	20020205 20030225 20030502	(200323)	EN EN EN	·			<
AU EP	2004513076 2001277056 1305285 60128475	B2 B1	20040430 20050929 20070516 20070628	(200570) (200734)	JA EN EN DE	126			
	00120175		200,0020	(200,15)					

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION DATE				
WO 2002008188 A1	WO 2001-US22979 20010720				
US 20020042441 Al Provisional	US 2000-220778P 20000725				
US 6525083 B2 Provisional	US 2000-220778P 20000725				
AU 2001077056 A	AU 2001-77056 20010720				
AU 2001277056 B2	AU 2001-277056 20010720				
EP 1305285 A1	EP 2001-954836 20010720				
EP 1305285 .B1	EP 2001-954836 20010720				

ΕP	1305285 A1	WO	2001-US22979 20010720
JP	2004513076 W	WO	2001-US22979 20010720
EP	1305285 B1	WO	2001-US22979 20010720
US	20020042441 A1	US	2001-912961 20010725
US	6525083 B2	US	2001-912961 20010725
JP	2004513076 W	JP	2002-514095 20010720
DE	60128475 E	DE	2001-628475 20010720
DE	60128475 E	EP	2001-954836 20010720
DE	60128475 E	WO	2001-US22979 20010720

FILING DETAILS:

PAT	TENT NO	KIND		PA'	TENT NO	
ΑU	2001277056	B2	Previous Publ	ΑU	2001277056	Α
ΑU	2001077056	A	Based on	WO	2002008188	Α
ΕP	1305285	A1	Based on	WO	2002008188	Α
JP	2004513076	W	Based on	WO	2002008188	Α
AU	2001277056	B2	Based on	WO	2002008188	Α
ΕP	1305285	B1	Based on	WO	2002008188	Α
DE	60128475	E	Based on	EP	1305285	Α
DE	60128475	E	Based on	WO	2002008188	Α

PRIORITY APPLN. INFO: US 2000-220778P 20000725 US 2001-912961 20010725

INT. PATENT CLASSIF.:

MAIN: C07D209-08; C07D209-28

SECONDARY: A61K031-404; A61K031-405; A61P001-00; A61P001-18; A61P017-06; A61P025-28; A61P027-02; A61P029-00;

A61P003-04; A61P003-06; A61P003-10; A61P035-00;

A61P009-10; A61P009-12

IPC ORIGINAL: A61K0031-403 [I,C]; A61K0031-404 [I,A]; A61K0031-405

[I,A]; A61P0003-00 [I,C]; A61P0003-10 [I,A]; C07D0209-00 [I,C]; C07D0209-08 [I,A]; C07D0209-12 [I,A]; A61K0031-403

[I,C]; A61K0031-404 [I,A]; A61K0031-405 [I,A];

A61P0003-00 [I,C]; A61P0003-10 [I,A]; C07D0209-00 [I,C];

C07D0209-08 [I,A]; C07D0209-12 [I,A]

IPC RECLASSIF.: A61K0031-403 [I,C]; A61K0031-404 [I,A]; A61P0001-00 [I,A]

; A61P0001-00 [I,C]; A61P0001-18 [I,A]; A61P0017-00 [I,C]

; A61P0017-06 [I,A]; A61P0025-00 [I,C]; A61P0025-28 [I,A]

; A61P0027-00 [I,C]; A61P0027-02 [I,A]; A61P0029-00 [I,A]

; A61P0029-00 [I,C]; A61P0003-00 [I,C]; A61P0003-04 [I,A]

; A61P0003-06 [I,A]; A61P0003-10 [I,A]; A61P0035-00 [I,A]

; A61P0035-00 [I,C]; A61P0009-00 [I,C]; A61P0009-10 [I,A]

; A61P0009-12 [I,A]; C07D0209-00 [I,C]; C07D0209-12 [I,A]

; C07D0209-28 [I,A]

BASIC ABSTRACT:

WO 2002008188 A1 UPAB: 20060119

NOVELTY - N-substituted indoles (I), their salts or prodrugs are new.

DETAILED DESCRIPTION - N-substituted indoles of formula (I), their salts or prodrugs are new.

R1 = methyl (optionally mono-, di- or tri-substituted by F);
R2 - R4 = H, halo, 1-6C alkyl, 2-6C alkenyl, 2-6C alkynyl, 3-8C
cycloalkyl, aryl, O(1-6C)alkyl, O(2-6C)alkenyl, O(2-6C)alkynyl, O-aryl, OH,
S(1-6C)alkyl, S(2-6C)alkenyl, S(2-6C)alkynyl, SO2(1-6C)alkyl, SO2(2-6C)alkenyl, SO2(2-6C)alkynyl, OCON(R5)2, OCO(1-6C)alkyl or CN (where alkyl,
alkenyl and alkynyl are optionally linear or branched and alkyl, alkenyl,

alkynyl, cycloalkyl and aryl are optionally mono- to penta-substituted with halo, aryl, O-aryl or OMe);

R5, R6 = H, F, OH or 1-5C alkyl; or

C(R5+R6) = 3-6C cycloalkyl;

R7, R8 = H, F or 1-5C alkyl; or

R7+R8 = 3-6C cycloalkyl;

R9 = H or optionally linear or branched 1-5C alkyl;

Ar1 = phenyl, 1-naphthyl, 2-naphthyl, pyridyl or quinolyl (all mono-,
di- or tri-substituted with R4);

X = C(0), S(0)2, CH2, CH(CH3), C(CH3)2, CF2 or cyclopropylidene;

Y = 0 or S; and

n = 0 - 5.

An INDEPENDENT CLAIM is also included for a pharmaceutical composition comprising (I), a carrier and at least one compound selected from:

- (a) insulin sensitizers including:
- (i) peroxisome proliferator activated receptor gamma (PPARgamma) agonists, such as glitazones (e.g. troglitazone, pioglitazone, englitazone, MCC-555 and rosiglitazone), and compounds disclosed in WO97/27857, WO97/28115, WO97/28137 and WO97/27847;
 - (ii) biguanides such as metformin and phenformin;
 - (iii) protein tyrosine phosphatase-1B (PTP-1B) inhibitors; and
 - (iv) dipeptidyl peptidase IV (DP-IV) inhibitors;
 - (b) insulin or insulin mimetics;
- (c) sulfonylureas such as tolbutamide and glipizide, or related materials;
 - (d) alpha-glucosidase inhibitors (such as acarbose);
 - (e) cholesterol lowering agents such as:
- (i) HMG-CoA reductase inhibitors (preferably lovastatin, simvastatin, pravastatin, fluvastatin, atorvastatin, rivastatin, itavastatin, ZD-4522 or other statins);
- (ii) sequestrants (preferably cholestyramine, colestipol or dialkylaminoalkyl derivatives of a cross-linked dextran);
 - (iii) nicotinyl alcohol, nicotinic acid or its salt;
- (iv) PPARalpha agonists such as fenofibric acid derivatives (preferably gemfibrozil, clofibrate, fenofibrate or benzafibrate);
 - (v) PPARalpha/gamma dual agonists, such as KRP-297;
- (vi) inhibitors of cholesterol absorption, such as for example betasitosterol;
- (vii) acyl CoA:cholesterol acyltransferase inhibitors, such as for example avasimibe, and
 - (viii) anti-oxidants, such as probucol;
 - (f) PPARdelta agonists such as those disclosed in WO97/28149;
- (g) antiobesity compounds such as fenfluramine, dexfenfluramine, phentiramine, sulbitramine, orlistat, neuropeptide Y5 inhibitors, and beta3 adrenergic receptor agonists;
 - (h) an ileal bile acid transporter inhibitor; and
- (i) agents intended for use in inflammatory conditions such as aspirin, non-steroidal anti-inflammatory drugs, glucocorticoids, azulfidine, and cyclooxygenase- 2 selective inhibitors.

ACTIVITY - Antidiabetic; Anorectic; Antilipemic; Antiarteriosclerotic; Antiinflammatory; Antiulcer; Neuroprotective; Cytostatic; Antipsoriatic; Hypotensive; Ophthalmological; Vasotropic; Nootropic; Antitumor; Antianginal; Cardiant; Cerebroprotective.

MECHANISM OF ACTION - PPARgamma agonist.

Test details are described but no results given.

USE - For treating, controlling or preventing at least one disease, disorder or condition e.g. noninsulin dependent diabetes mellitus, hyperglycemia, low glucose tolerance, insulin resistance, obesity, lipid disorders, dyslipidemia, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia, low HDL levels, high LDL levels, atherosclerosis and its sequelae, vascular restenosis, irritable bowel syndrome, inflammatory bowel disease including Crohn's disease and ulcerative colitis, other inflammatory conditions, pancreatitis, abdominal obesity, neurodegenerative disease,

retinopathy, neoplastic conditions, adipose cell tumors, adipose cell carcinomas, such as liposarcoma, prostate cancer and other cancers, including gastric, breast, bladder and colon cancers, angiogenesis, Alzheimer's disease, psoriasis, high blood pressure, Syndrome X, ovarian hyperandrogenism (polycystic ovarian syndrome), and other disorders where insulin resistance is a component (all claimed); for treating angina, claudication, heart attack and stroke.

ADVANTAGE - (I) is free of some of the side effects that have been found in many of the glitazones.

MANUAL CODE:

CPI: B01-D02; B04-J03A; B06-A02; B06-D01; B06-D02; B07-A02B; B07-A03; B07-D02; B07-D04C; B07-D10; B07-D12; B07-F01; B10-A08; B10-A17; B10-A22; B10-B01B; B10-B02G; B10-B02H; B10-B04B; B10-E02; B14-D02A2; B14-D05; B14-D05C; B14-D06; B14-E10C; B14-F01; B14-F01B; B14-F01D; B14-F01G; B14-F02B; B14-F02D1; B14-F02F2; B14-F06; B14-F07; B14-H01; B14-J01; B14-J01A4; B14-L01; B14-L06; B14-N03; B14-N13; B14-N16; B14-N17; B14-S04

TECH

ORGANIC CHEMISTRY - Preparation: No general preparation of (I) is given.

ABEX ADMINISTRATION - The composition is administered orally, rectally, topically, parenterally (including subcutaneously, intramuscularly or intravenously), ocularly (including ophthalmically), pulmonarily (including nasal or buccal inhalation), intranasally in a daily dosage of 0.1 - 100 mg/kg of animal body weight for 2 - 6 times a day in a single or divided dosage. For mammals the dosage is 1 - 1000 (preferably 1 - 50) mg. SPECIFIC COMPOUNDS - 31 Compounds (I) are specifically claimed, e.g. (2S)-2-(3-((1-(4-methoxybenzoyl)-2-methyl-5-(trifluoromethoxy)-1H-indol-3-yl)methyl)phenoxy)propanoic acid (Ia).

EXAMPLE - 3-Hydroxybenzaldehyde (4 g) was dissolved in tetrahydrofuran (THF) (165 ml) and 1-triphenylphosphoranylidene-2-propanone (20.9 g) was added. The solution was then refluxed and chromatographed to obtain (3E)-4-(3-hydroxyphenyl)-3-buten-2-one (a). (a) (2 g) was dissolved in ethyl acetate (120 ml), 10% palladium on activated charcoal (200 mg) was then added and the vessel was evacuated and then charged with H2 for 1 hour. The mixture was filtered and filtrate was evaporated to obtain 4-(3-hydroxyphenyl)-2-butanone (b). Para-trifluoromethoxyphenyl hydrazine hydrochloride (2.58 g) and (b) (1.86 g) were stirred in acetic acid at 110 degrees C for 45 minutes. The acetic acid was then evaporated and the residue was chromatographed to obtain 3-((2-methyl-5-(trifluoromethoxy)-1Hindol-3-yl)methyl)phenol (c). (c) (50 mg) was dissolved in dichloromethane (2 ml) and to it was added (s)-allyl lactate (24 mg), triphenyl phosphine (50 mg) and diethylazodicarboxylate (0.03 ml). The mixture was then chromatographed to obtain allyl (2S)-2-(3-((2-methyl-5-(trifluoromethoxy)-1H-indol-3-yl)methyl)phenoxy)propanoate (d). (d) (467 mg) was dissolved in THF (11 ml) and cooled to -78 degrees C. Sodium bis(trimethylsilyl)amide (1.3 ml of a 1N solution in THF) was added and stirred for 10 minutes. Para-anisoyl chloride (221 mg) was then added, warmed to 0 degrees C and then the reaction was worked up to give allyl(2S)-2-(3-((1-(4methoxybenzoyl) -2-methyl-5-(trifluoromethoxy) -1H-indol-3yl)methyl)phenoxy)propanoate (e). (e) (490 mg) was dissolved in dimethylformamide (9 ml). 5,5-Dimethyl-1,3-cyclohexanedione (181 mg), N,N-diisopropylethylamine (0.225 ml) and (tetrakistriphenylphosphine) palladium (50 mg) were then added and the solution was stirred for 2 hours. After work up 395 mg of (2S)-2-(3-((1-(4-methoxybenzoyl)-2-methyl-5-(trifluoromethoxy)-1H-indol-3-yl)methyl)phenoxy)propanoic acid (Ia) was obtained in 87% yield.

L62 ANSWER 13 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP ON STN ACCESSION NUMBER: 2000-594408 [56] WPIX DOC. NO. CPI: C2000-177569 [56]

TITLE:

Dietary supplements used to treat diabetes mellitus, hyperlipidemia, obesity and hypercholesterolemia and to

reduce blood glucose in acute stress, comprise

stabilized, reduced bicyclo(3.3.1)-nonene derivatives

DERWENT CLASS:

B05

INVENTOR:

ARSLANIAN R L; FORT D M; INMAN W D

PATENT ASSIGNEE:

(SHAM-N) SHAMAN PHARM INC

COUNTRY COUNT:

ΩΩ

PATENT INFORMATION:

PATENT NO		DATE	WEEK	LA	 MAIN IPC	
WO 2000054785					 	<
AU 2000037387	Α	20001004	(200101)	EN		<

APPLICATION DETAILS:

PATENT NO	KIND ·	APPLICATION	DATE
WO 2000054785		WO 2000-US6380	
AU 2000037387	Α	- AU 2000-37387	20000314

FILING DETAILS:

PATENT NO	KIND		PATENT	NO
AU 2000037387	A Based	l on	WO 2000	0054785 A

PRIORITY APPLN. INFO: US 1999-270305 19990315

INT. PATENT CLASSIF.:

IPC RECLASSIF.: A61K0031-122 [I,A]; A61K0031-122 [I,C]; A61K0038-28 [I,A]; A61K0038-28 [I,C]; A61K0045-00 [I,C]; A61K0045-06 [I,A]

BASIC ABSTRACT:

WO 2000054785 A2 UPAB: 20060117

NOVELTY - Dietary supplements comprise stabilized, reduced bicyclo(3.3.1)-nonene derivatives (I).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) stabilized extracts initially obtained from the group of plants consisting of Hypericum spp. and Clusea spp. comprising a stabilized, reduced bicyclo(3.3.1)-nonene of formula (II);
- (2) methods of lowering blood glucose by administering therapeutically effective amounts of compositions comprising isolated or purified compounds (II) or of formula (III); and
- (3) methods of lowering serum triglycerides by administering therapeutically effective amounts of compositions comprising isolated or purified (II) or (III).

R1 = H or oxygen;

R2 = H, oxygen or benzoyl (provided that R1 and R2 are not both oxygen);

R3 = H, benzoyl, CH3, methylhalide, 3-methylbutyl or (CH2)xCOOR4; or R2+R3 = optionally substituted furan or pyran ring;

x = 0-2;

R4 = H or 1-3C alkyl;

R5 = H or 1-6C alkyl;

R6 = 3-methylbutyl, isobutyryl, 2-methylbutyryl or benzoyl;

R7 = 3-methylbutyl;

R8 = H, CH3, methylhalide, 4-methylpentyl or (CH2)xCOOR4;

R1', R2' = O or OH (but not both O);

R3' = H or CH3; and

a-d = single or double bonds.

ACTIVITY - Antidiabetic; antilipemic; anorectic.

MECHANISM OF ACTION - None given.

USE - The supplements are used to lower blood glucose and to lower serum triglycerides (claimed). They are used to treat diabetes mellitus and lipidemia. They may also be used as hypoglycemic agents to reduce blood glucose in situations of acute stress such as experienced by animals or patients with hyperthermia, trauma, sepsis, burns or those undergoing general anesthesia, to treat hyperglycemia associated with severe head injury, cerebral thrombosis, encephalitis and heat stroke, and as hypoglycemic agents for rare congenital metabolic glycogen storage disease associated with hyperglycemia. They may also be used to treat obesity and hypercholesterolemia.

ADVANTAGE - The supplements are particularly suited for the control of hyperglycemia in patients whose blood glucose cannot be controlled by diet alone. They are capable of lowering blood glucose levels without an accompanying increase in urine glucose levels.

DESCRIPTION OF DRAWINGS - Bar graph showing the plasma glucose levels of diabetic mice treated with varying doses of Compound 3 (20, 40 and 80 mg/kg). Blood glucose levels measured at 0, 2.5, 26, 28 and 50 hours (left to right). asteriskp less than 0.05; asteriskasteriskp less than 0.01; asteriskasteriskp less than 0.0001. MANUAL CODE: CPI: B06-A01; B06-A03; B07-H; B10-A08; B10-A17; B10-E04A;

B10-F02; B14-E12; B14-F06; B14-S04

TECH

PHARMACEUTICALS - Preferred Supplements: The supplements further comprise a pharmaceutically acceptable carrier. (I) is an octohydro bicyclo(3.3.1)nonene (preferably (II) or (III)).

ABEX ADMINISTRATION - Administration may be enteral or parenteral such as oral, intramuscular, intravenous, subcutaneous, transdermal, rectal or inhalational. The dose of stabilized, reduced bicyclo(3.3.1)-nonene is 0.5-1,000 mg/kg/day (claimed). Dose is at most1,000 mg/kg/day, preferably greater than 20 mg/kg/day and less than about 500 mg/kg/day (25-350 mg/kg/day). Treatment can be repeated as needed e.g. a dosage of 40 or 80 mg/kg/day can be given in single or divided doses. Administration for the treatment of diabetes may be in combination with another antihyperglycemic agent such as sulfonylureas (e.g. acetohexamide, chlorpropamide, tolazamide, tolbutamide, glyburide, glipizide, glycazide), non-sulfonylurea insulin secretagogues, biguanides (e.g. metformin, buformin), thiazolidinediones (e.g. troglitazone, pioglitazone, rosiglitazone, ciglitazone), beta-adrenoceptor agonists, alpha-glycosidase inhibitors (e.g. acarbose, miglatol) or insulin (claimed) as well as dehydroepiandrsoterone or its conjugated sulfate ester, antiglucocorticoids, tumor necrosis factor alpha inhibitors or pramlintide, and for the treatment of hyperlipidemia may be in combination with statins (e.g. fluvastatin, lovastatin, pravastatin, simvastatin), bile acid-binding resins (e.g. colestipol, cholestyramine), nicotinic acid, probucol, beta-carotene, vitamin E or vitamin C. SPECIFIC COMPOUNDS - Nine bicyclo(3.3.1) - nonenes are given as active compounds e.g. 4-hydroxy-1-isobutyryl-8-exo-methyl-3,5,7-tris(3methylbutyl) -8-(4-methylpentyl) -exo-bicyclo(3.3.1) nonene-2,9-dione of formula (IIa).

EXAMPLE - Single doses of 4-hydroxy-1-isobutyryl-8-exo-methyl-3,5,7-tris(3-methylbutyl)-8-(4-methylpentyl)-exo-bicyclo(3.3.1)nonene-2,9-dione (IIa) were administered orally at dosages of 20, 40 and 80 mg/kg to db/db mice. Single doses of (IIa) (40 and 80 mg/kg) given to db/db mice at 24 and 48 hours after the initial oral administration resulted in statistically significant reductions in plasma glucose relative to vehicle controls at either 0, 2.5, 26, 28 and 50 hours or at all time points after

oral administration. Two and a half hours after initial dosing, mean glucose levels for mice dosed with 40 and 80 mg/kg of (IIa) declined 104.9 mg/dl (p=0.0013) and 80 mg/dl (p=0.0279), respectively, from the baseline value. Twenty-six hours after the initial dosing, 2 hours after the 2nd dosing, mean glucose levels for the 40 and 80 mg/kg doses declined 63.4 mg/dl (p=0.0225) and 172.3 mg/dl (p less than 0.0001), respectively, from the baseline values. Twenty-eight hours after the initial dosing, 4 hours after the 2nd dosing, mean glucose levels for the 80 mg/kg dose declined 236.8 mg/dl (p less than 0.0001) from the baseline value. Fifty hours after the initial dosing, 2 hours after the 3rd dosing, mean glucose levels for the 40 and 80 mg/kg doses declined 91.4 mg/dl (p=0.0047) and 94.8 (p=0.0029), respectively from the baseline values. Compound 3 (40) mg/kg) also showed a trend in reducing plasma glucose relative to vehicle controls at 4 hours after the 2nd doing, 28 hours after the initial oral administration. Twenty-eight hours after the initial dosing, mean glucose levels for Compound 3 suspended in citrate buffer declined 99 mg/dl (p=0.0842) from baseline. By comparison, the known hypoglycemic metformin given at 250 mg/kg lowered plasma glucose levels by approximately 134 mg/dl (p less than 0.0001) 2.5 hours after the initial dose, 119.4 mg/dl (p less than 0.0001) 26 hours after the initial dose, 165.6 mg/dl (p less than 0.0001) 28 hours after the initial dose and 138.4 mg/dl 2 hours after the 3rd dose and 40 hours after the initial dose. The antihyperglycemic effect of (IIa) at dosages of 40 and 80 mg/kg occurred in the absence of any significantly adverse effect on body weight. Body weights were not affected in animals treated during the test period. It was noted that the food intake of those animals receiving (IIa) (80 mg/kg) and metformin was less than that of the normal intake range (5-6 g/day/mouse), but recovered to normal food intake range over 24-72 hours. Dose levels of 40 and 80 mg/kg produced a statistically significant reduction in plasma glucose relative to vehicle (control).

L62 ANSWER 14 OF 41 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN 2000-602057 [57]

ACCESSION NUMBER: DOC. NO. CPI:

C2000-180187 [57]

B05 ·

TITLE: "

Lowering blood glucose levels and serum triglyceride levels, useful for treating e.g. diabetes and obesity,

WPIX ...

comprises administering bicyclo.(3.3.1) nonenes

DERWENT CLASS:

INVENTOR:

PATENT ASSIGNEE:

FORT D M (SHAM-N) SHAMAN PHARM INC

COUNTRY COUNT: 88

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG MAIN IPC WO 2000054760 A2 20000921 (200057) * EN 64[6] AU 2000037441 A 20001004 (200101) EN <--

APPLICATION DETAILS:

PATENT NO KIND APPLICATION WO 2000054760 A2 WO 2000-US6624 20000314 AU 2000037441 A AU 2000-37441 20000314

FILING DETAILS:

PATENT NO KIND

AU 2000037441 A

MANUAL CODE:

Based on

WO 2000054760 A

PRIORITY APPLN. INFO: US 1999-270489 19990315 INT. PATENT CLASSIF.: IPC RECLASSIF.: A61K0031-122 [I,A]; A61K0031-122 [I,C]; A61K0031-155 [I,A]; A61K0031-155 [I,C]; A61K0031-425 [I,A]; A61K0031-425 [I,C]; A61K0031-445 [I,A]; A61K0031-445 [I,C]; A61K0031-64 [I,A]; A61K0031-64 [I,C]; A61K0031-70 [I,A]; A61K0031-70 [I,C]; A61K0038-28 [I,A]; A61K0038-28 [I,C]; A61K0045-00 [I,C]; A61K0045-06 [I,A] BASIC ABSTRACT: WO 2000054760 A2 UPAB: 20050411 NOVELTY - Lowering blood glucose levels comprises administration of isolated or purified bicyclo(3.3.1) nonenes (IIA) or their salts, or an extract of Hypericum species enriched in (IIA), and lowering serum triglyceride levels comprises administering an isolated or a purified bicyclo(3.3.1) nonene (IIB). DETAILED DESCRIPTION - Lowering blood glucose levels comprises administration of an isolated or purified bicyclo(3.3.1) nonene compounds of formula (IIA) or their salts, or of an extract of Hypericum species enriched in (IIA). a = single or double bonds; R1 = hydroxy or oxo;R2 = hydroxy, oxo, or benzoyl; provided that R1 and R2 are not both oxo; R3 = H, methyl, halomethyl, 3-methyl-2-butenyl, or (CH2)xCOOR4; or R2+R3= a furan or pyran ring; R4, R5 = H or 1-6C alkyl; R6 = 3-methyl-2-butenyl, isobutyryl, 2-methylbutyryl, or benzoyl; x = 0-2;R7 = 3-methyl-2-butenyl; and R8 = H, methyl, halomethyl, 4-methyl-3-pentenyl or (CH2)xCOOR4. INDEPENDENT CLAIMS are also included for a method of lowering serum triglyceride levels comprising administering to a mammal an amount of an isolated or a purified bicyclo(3.3.1) nonene of formula (IIB). R11 = as for R1, or 1-6C alkoxy;R12 = as for R2, or 1-6C alkoxy;provided that R11 and R12 are not both oxo; R13 = as for R3; orR12+R13 = as for R2+R3.ACTIVITY - Antidiabetic; antlipemic; vulnerary; antibacterial; immunosuppressive; cerebroprotective; anorectic. Mice genetically altered to be obese and diabetic were given 80 mg/kg of 4-hydroxy-1-isobutyryl-8-methyl-3,5,7-tris-(3-methyl-2-butenyl)- 8-(4-5) methyl-3-pentenyl)-exo-bicyclo(3.3.1)nonene-2,9-dione (compound 1) at 0, 24 and 48 hours. The falls in blood glucose compared to control mice, as measured at 3, 27, and 51 hours, were 164.6, 172.4, and 128.5 mg/dl respectively. MECHANISM OF ACTION - None given. USE - (IIA) and (IIB) are useful in both clinical and veterinary medicine. (IIA) are of use in treatment of hyperglycemic disorders, especially diabetes, particularly the non-insulin dependent type (NIDDM) (claimed); other hyperglycemic conditions include hyperthermia and heat stroke, trauma (e.g., head injury), cerebral thrombosis, encephalitis, glycogen storage disease, sepsis, burns, and general anesthesia. For these purpose, they can be given either alone, or in combination with other antihyperglycemic agents e.g. insulin. (IIB) lower triglyceride and cholesterol levels, also raise plasma HDL, and are of value in treating hyperlipidemia and obesity. (IIB) can be given either alone, or in combination with other antihyperlipidemic agents, e.g., the statins.

CPI: B06-A01; B06-A03; B07-A02B; B07-D04C; B07-F01; B10-A08; B10-A17; B10-C02; B10-C04A; B10-E04A; B10-F02; B10-G02; B14-A01; B14-E12; B14-F06; B14-G02; B14-J01;

B14-N17B; B14-S04

TECH

PHARMACEUTICALS - Preferred Compounds: (IIA) and (IIB) are of formula (II'):

R1', R2' = OH or oxo;

R3' = H or Me;

provided that R1' and R2' are not simultaneously oxo.

The compounds are preferably salts of sodium, potassium, lithium, calcium, magnesium, zinc, and iron. (IIA) have a degree of purity of at least 2.5 (preferably 5) wt.% in the extract of Hypericum species.

Preferred Method: (IIA) are administered in conjunction with another

antihyperglycemic agent selected from a sulfonylurea, a non-sulfonylurea insulin secretagogue, a biguanide, a thiazolidinedione, a beta-adrenoceptor agonist, an alpha-glycosidase inhibitor and insulin. The sulfonylurea is acetohexamide, chlorpropamide, tolazamide, tolbutamide, glyburide, glypizide or glycazide; the biguanide is metformin or

buformin; the thiazolidinedione is troglitazone, pioglitazone, rosiglitazone or ciglitazone; and the alpha-glycosidase inhibitor is acarbose or miglatol. (IIB) is administered in conjunction with another antihyperlipidemic agent.

ABEX ADMINISTRATION - Administration is e.g. oral, transdermal, or by injection, suppository, or inhalation. Dosage is 0.5-1000 (preferably 10-350, e.g. 40-80) mg/kg/day for hypoglycemic effect and 80-160 mg/kg/day for hypolipidemic effect.

SPECIFIC COMPOUNDS - 7 Compounds (IIA) or (IIB) and 2 of their oxidative derivatives are preferred, e.g. 4-hydroxy-1-isobutyryl-8-methyl-3,5,7-tris-(3-methyl-2-butenyl)-8-(4-methyl-3-pentenyl)-exo-bicyclo(3.3.1)nonene-2,9-dione (compound 1); and - 1-(2-methyl-1-oxopropyl)-2,12-dioxo-3,10beta-bis-(3-methyl-2-butenyl)-6beta-(1-methyl-1-hydroxyethyl)-11beta-methyl-11alpha(4-methyl-3-pentenyl)-5-oxatricyclo(6.3.1.04,8)-3-dodecene.

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L62 ANSWER 15 OF 41 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER:

2001634764 MEDLINE Full-text

DOCUMENT NUMBER:

PubMed ID: 11688065

TITLE:

[Prevalence and therapy of vascular risk factors in

hospitalized type 2 diabetic

patients].

Pravalenz und Therapie von Gefassrisikofaktoren bei

hospitalisierten Typ-2-Diabetikern.

AUTHOR:

Henzen C; Hodel T; Lehmann B; Mosimann T; Horler U; Joss R

CORPORATE SOURCE: Medizinische Klinik Kantonsspital CH-6000 Luzern 16..

Christoph.Henzen@ksl.ch

SOURCE:

Schweizerische medizinische Wochenschrift, (2000 Dec

23) Vol. 130, No. 51-52, pp. 1979-83. Journal code: 0404401. ISSN: 0036-7672.

PUB. COUNTRY:

Switzerland

DOCUMENT TYPE:

(ENGLISH ABSTRACT)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

German

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200112

ENTRY DATE:

Entered STN: 5 Nov 2001

Last Updated on STN: 23 Jan 2002

Entered Medline: 7 Dec 2001

AB Type 2 diabetes mellitus is often associated with other risk factors for atherosclerotic disease, resulting in a marked increase in cardiovascular events and deaths. Combined treatment of hyperglycaemia, dyslipidaemia and

hypertension significantly decreases the frequency and severity of diabetic microvascular and macrovascular complications. In a prospective cohort study including 356 type 2 diabetic patients (= 14% of all in-patients during a 6 months' period) the prevalence and treatment of cardiovascular risk factors were determined. Hypertension was diagnosed in 54% of the diabetic patients, albuminuria in 53% and dyslipidaemia in 47%; there were 40 smokers (17%). admission the mean HbAlc was 7.7 +/- 2.0%, the mean fasting plasma glucose 10.0 + - 4.2 mmol/1 (and 8.9 + - 3.9 mmol/1, p = 0.03, when discharged), the mean systolic blood pressure was 144 +/- 28 mm Hg (and 131 +/- 20, p < 0.0001, when discharged), and the triglycerides were 2.6 +/- 0.4 mmol/l. 34% of the hypertensive diabetic patients were treated with a combination of antihypertensive drugs, 44% of the dyslipidaemic diabetic patients were treated with statins, and 58% of all diabetic patients received aspirin or oral anticoagulation. 23% of the diabetic patients were treated by diet alone, 36% with insulin, 25% with sulfonylureas and 5% with metformin, while 11% were given a combination of antihyperglycaemic medication. In-hospital mortality was 11%. The diabetic patients were discharged on 2.9 +/- 1.7 different drugs. The prevalence of associated cardiovascular risk factors is high in type 2 diabetic patients, and thus a combination of drugs is often warranted. The rate of admissions and in-hospital mortality is high in type 2 diabetic patients.

CT Check Tags: Female; Male

Adult Aged

Combined Modality Therapy

*Diabetes Mellitus, Type 2: DT, drug therapy Diabetes Mellitus, Type 2: MO, mortality

*Diabetic Angiopathies: DT, drug therapy Diabetic Angiopathies: MO, mortality

*Diabetic Diet

Hospital Mortality

Humans

*Hypoglycemic Agents: TU, therapeutic use Middle Aged

*Patient Admission Risk Factors Switzerland

CN 0 (Hypoglycemic Agents)

L62 ANSWER 16 OF 41 MEDLINE on STN.

ACCESSION NUMBER: 2007282734 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 17489673

TITLE: Treating the metabolic syndrome.

AUTHOR: Bianchi Cristina; Penno Giuseppe; Romero Fabiola; Del Prato

Stefano; Miccoli Roberto

CORPORATE SOURCE: University of Pisa, Department of Endocrinology and

Metabolism, Cisanello University Hospital, Pisa, Italy...

c.bianchi@ao-pisa.toscana.it

SOURCE: Expert review of cardiovascular therapy, (2007 May) Vol. 5,

No. 3, pp. 491-506. Ref: 135

Journal code: 101182328. E-ISSN: 1744-8344.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200705

ENTRY DATE: Entered STN: 15 May 2007

Last Updated on STN: 30 May 2007 Entered Medline: 29 May 2007

The metabolic syndrome (MS), a cluster of metabolic abnormalities with insulin AΒ resistance as its central component, is increasing in prevalence and is associated with an increased risk of cardiovascular disease and Type 2 diabetes mellitus (T2DM). Current evidence supports an aggressive intervention approach that comprises lifestyle modification in conjunction with drug treatment of the MS components. Healthier eating and regular exercise greatly reduce waistline and body mass index, lower blood pressure and improve lipid profile. Lifestyle modification has been proven to prevent T2DM development. Nevertheless, appropriate treatment of MS components often requires pharmacologic intervention with insulin-sensitizing agents, such as metformin and thiazolidinediones, while statins and fibrates, or angiotensinconverting enzyme inhibitors and angiotensin II receptor blockers are the first-line lipid-modifying or antihypertensive drugs. Only severely obese patients require specific drug treatments. Very often, drug combinations will be necessary to manage multiple risk factors. As we progress in the understanding of the pathophysiology of the MS, new targets for therapies will probably be identified and new treatments will prove to be even more efficacious than those currently available for the management of this lifethreatening condition.

CT Cardiovascular Diseases: ET, etiology

Cardiovascular Diseases: PC, prevention & control

Diet

Dyslipidemias: CO, complications

Dyslipidemias: TH, therapy

Exercise Humans

Hyperglycemia: DT, drug therapy

Insulin Resistance

*Life Style

Metabolic Syndrome X: CO, complications *Metabolic Syndrome X: DT, drug therapy

Obesity: CO, complications

Obesity: TH, therapy

L62 ANSWER 17 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2006494816 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 16918264

TITLE: Pioglitazone: an antidiabetic drug with cardiovascular

therapeutic effects.

AUTHOR: Pfutzner Andreas; Schneider Christian A; Forst Thomas CORPORATE SOURCE: IKFE - Institute for Clinical Research and Development,

Parcusstr. 8 D-55116 Mainz, Germany.. AndreasP@ikfe.de

SOURCE: Expert review of cardiovascular therapy, (2006 Jul) Vol. 4,

No. 4, pp. 445-59. Ref: 123

Journal code: 101182328. E-ISSN: 1744-8344.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200610

ENTRY DATE: Entered STN: 22 Aug 2006

Last Updated on STN: 7 Oct 2006 Entered Medline: 6 Oct 2006

AB The antidiabetic compound pioglitazone, an activator of the intracellular peroxisome proliferator-activated receptor-gamma, and decreases metabolic and vascular insulin resistance. The drug is well tolerated, and its metabolic effects include improvements in blood glucose and lipid control. Vascular effects consist of improvements in endothelial function and hypertension, and a reduction in surrogate markers of artherosclerosis. In a large, placebo-

controlled, outcome study in secondary prevention, PROactive study, the use of pioglitazone in addition to an existing optimized macrovascular risk management resulted in a significant reduction of macrovascular endpoints within a short observation period that was comparable to the effect of statins and angiotensin converting enzyme inhibitors in other trials. These results underline the value of pioglitazone for managing the increased cardiovascular risk of patients with a metabolic syndrome or Type 2 diabetes mellitus.

CT Body Weight: DE, drug effects

Cardiovascular Diseases: PC, prevention & control

*Cardiovascular System: DE, drug effects

Diabetes Mellitus: BL, blood

Diabetes Mellitus: DT, drug therapy Diabetes Mellitus: PP, physiopathology Diabetic Angiopathies: DT, drug therapy Diabetic Angiopathies: PP, physiopathology

Diabetic Angiopathies: PC, prevention & control

Drug Therapy, Combination

Endothelium, Vascular: DE, drug effects Endothelium, Vascular: PH, physiology Hemoglobin A, Glycosylated: AN, analysis

Humans

Hypoglycemic Agents: PK, pharmacokinetics *Hypoglycemic Agents: PD, pharmacology Hypoglycemic Agents: TU, therapeutic use Insulin Resistance: PH, physiology

Lipoproteins: BL, blood

Metformin: TU, therapeutic use

Obesity: EP, epidemiology Obesity: PP, physiopathology

PPAR gamma: AI, antagonists & inhibitors Thiazolidinediones: PK, pharmacokinetics Thiazolidinediones: PD, pharmacology

Thiazolidinediones: TU, therapeutic use

Treatment Outcome

RN 111025-46-8 (pioglitazone); 657-24-9 (Metformin)

CN 0 (Hemoglobin A, Glycosylated); 0 (Hypoglycemic Agents); 0 (Lipoproteins);
0 (PPAR gamma); 0 (Thiazolidinediones)

L62 ANSWER 18 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2006090101 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 16475962

TITLE: Preventing type 2 diabetes in

high risk patients: an overview of lifestyle and

pharmacological measures.

AUTHOR: Liberopoulos E N; Tsouli S; Mikhailidis D P; Elisaf M S

CORPORATE SOURCE: Dept. of Clinical Biochemistry (Vascular Disease Prevention Clinics), Royal Free Hospital, Royal Free and University

Clinics), Royal Free Hospital, Royal Free and University
College School of Medicine, Pond Street, London NW3 2QG,

UK.

SOURCE: Current drug targets, (2006 Feb) Vol. 7, No. 2, pp. 211-28.

Ref: 211

Journal code: 100960531. ISSN: 1389-4501.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200603

ENTRY DATE: Entered STN: 15 Feb 2006

Last Updated on STN: 11 Mar 2006

Entered Medline: 10 Mar 2006

BACKGROUND: Type 2 diabetes mellitus (T2DM) is a common disease that is AR associated with an increased risk of vascular complications. The incidence of T2DM is also increasing. It follows that T2DM prevention is important. METHODS: Relevant articles (review articles, randomised studies and large cohort and case-control studies) were identified through a Medline search (up to March 2005). RESULTS: The first trials on T2DM prevention were based on lifestyle intervention. The results of these studies were impressive since they demonstrated that even a small reduction in weight could significantly reduce the incidence of T2DM. However, the main disadvantage of lifestyle measures is that they are difficult to achieve and sustain. Therefore, pharmacological interventions have also been evaluated. The results of trials using metformin, orlistat, nateglinide, acarbose, thiazolidinediones, hormone replacement therapy, statins or fibrates are either encouraging or require more extensive evaluation. In addition, studies using antihypertensive drugs (mainly angiotensin-converting enzyme inhibitors and angiotensin II receptor antagonists) showed that these drugs could also reduce the progression to T2DM in high risk individuals. CONCLUSIONS: T2DM has major quality of life and cost implications. Therefore, more research is needed to establish safe and cost effective ways to prevent this modern epidemic.

CT Anti-Obesity Agents: AD, administration & dosage

Anti-Obesity Agents: TU, therapeutic use

Antihypertensive Agents: AD, administration & dosage

Antihypertensive Agents: TU, therapeutic use

Antilipemic Agents: AD, administration & dosage

Antilipemic Agents: TU, therapeutic use

Body Weight: DE, drug effects

*Diabetes Mellitus, Type 2: PC, prevention & control

Estrogen Replacement Therapy

Humans

Hypoglycemic Agents: AD, administration & dosage

Hypoglycemic Agents: TU, therapeutic use

*Life Style

Risk

CN 0 (Anti-Obesity Agents); 0 (Antihypertensive Agents); 0 (Antilipemic Agents); 0 (Hypoglycemic Agents)

L62 ANSWER 19 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2005315566 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 15963007

TITLE: Drug interactions of clinical importance with

antihyperglycaemic agents: an update.

AUTHOR: Scheen Andre J

CORPORATE SOURCE: Division of Diabetes, Nutrition and Metabolic Disorders,

Department of Medicine, CHU Sart Tilman, Liege, Belgium..

andre.scheen@chu.ulg.ac.be

SOURCE: Drug safety: an international journal of medical

toxicology and drug experience, (2005) Vol. 28, No. 7, pp.

601-31. Ref: 254

Journal code: 9002928. ISSN: 0114-5916.

PUB. COUNTRY:

New Zealand

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 20060

ENTRY DATE: Entered STN: 21 Jun 2005

Last Updated on STN: 14 Dec 2005

Entered Medline: 2 Aug 2006

AΒ

Because management of type 2 diabetes mellitus usually involves combined pharmacological therapy to obtain adequate glucose control and treatment of concurrent pathologies (especially dyslipidaemia and arterial hypertension), drug-drug interactions must be carefully considered with antihyperglycaemic drugs. Additive glucose-lowering effects have been extensively reported when combining sulphonylureas (or the new insulin secretagogues, meglitinide derivatives, i.e. nateglinide and repaglinide) with metformin, sulphonylureas (or meglitinide derivatives) with thiazolidinediones (also called glitazones) and the biguanide compound metformin with thiazolidinediones. Interest in combining alpha-glucosidase inhibitors with either sulphonylureas (or meglitinide derivatives), metformin or thiazolidinediones has also been demonstrated. These combinations result in lower glycosylated haemoglobin (HbA(1c)), fasting glucose and postprandial glucose levels than with either monotherapy. Even if modest pharmacokinetic interferences have been reported with some combinations, they do not appear to have important clinical consequences. No significant adverse effects, except a higher risk of hypoglycaemic episodes that may be attributed to better glycaemic control, occur with any combination. Challenging the classical dual therapy with sulphonylurea plus metformin, there is a recent trend to use alternative dual combinations (sulphonylurea plus thiazolidinedione or metformin plus thiazolidinedione). In addition, triple therapy with the addition of a thiazolidinedione to the metformin-sulphonylurea combination has been recently evaluated and allows glucose targets to be reached before insulin therapy is considered. This triple therapy appears to be safe, with no deleterious drugdrug interactions being reported so far. Potential interferences may also occur between glucose-lowering agents and other drugs, and such drug-drug interactions may have important clinical implications. Relevant pharmacological agents are those that are widely coadministered in diabetic patients (e.g. lipid-lowering agents, antihypertensive agents); those that have a narrow efficacy/toxicity ratio (e.g. digoxin, warfarin); or those that are known to induce (rifampicin [rifampin]) or inhibit (fluconazole) the cytochrome P450 (CYP) system. Metformin is currently a key compound in the pharmacological management of type 2 diabetes , used either alone or in combination with other antihyperglycaemics. There are no clinically relevant metabolic interactions with metformin, because this compound is not metabolised and does not inhibit the metabolism of other drugs. In contrast, sulphonylureas, meglitinide derivatives and thiazolidinediones are extensively metabolised in the liver via the CYP system and thus, may be subject to drugdrug metabolic interactions. Many HMG-CoA reductase inhibitors (statins) are also metabolised via the CYP system. Even if modest pharmacokinetic interactions may occur, it is not clear whether drug-drug interactions between oral antihyperglycaemic agents and statins may have clinical consequences regarding both efficacy and safety. In contrast, a marked pharmacokinetic interference has been reported between gemfibrozil and repaglinide and, to a lesser extent, between gemfibrozil and rosiglitazone. This leads to a drastic increase in plasma concentrations of each antihyperglycaemic agent when they are coadministered with the fibric acid derivative, and an increased risk of adverse effects. Some antihypertensive agents may favour hypoglycaemic episodes when co-prescribed with sulphonylureas or meglitinide derivatives, especially ACE inhibitors, but this effect seems to result from a pharmacodynamic drugdrug interaction rather than from a pharmacokinetic drug-drug interaction. No, or only modest, interferences have been described with glucose-lowering agents and other pharmacological compounds such as digoxin or warfarin. effects of inducers or inhibitors of CYP isoenzymes on the metabolism and pharmacokinetics of the glucose-lowering agents of each pharmacological class has been tested. Significantly increased (with CYP inhibitors) or decreased (with CYP inducers) plasma levels of sulphonylureas, meglitinide derivatives and thiazolidinediones have been reported in healthy volunteers, and these pharmacokinetic changes may lead to enhanced or reduced glucose-lowering action, and thus hypoglycaemia or worsening of metabolic control,

respectively. In addition, some case reports have evidenced potential drugdrug interactions with various antihyperglycaemic agents that are usually associated with a higher risk of hypoglycaemia.

CT*Diabetes Mellitus, Type 2: DT, drug therapy

Drug Interactions

Drug Therapy, Combination

Humans

Hypoglycemic Agents: AE, adverse effects Hypoglycemic Agents: PD, pharmacology *Hypoglycemic Agents: TU, therapeutic use

CN0 (Hypoglycemic Agents)

L62 ANSWER 20 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2005322053 MEDLINE Full-text

PubMed ID: 15958871 DOCUMENT NUMBER:

Addressing the global cardiovascular risk of hypertension, TITLE:

dyslipidemia, diabetes mellitus, and the metabolic syndrome

in the southeastern United States, part II: treatment

recommendations for management of the global cardiovascular risk of hypertension, dyslipidemia, diabetes mellitus, and

the metabolic syndrome.

AUTHOR: Bestermann William; Houston Mark C; Basile Jan; Egan Brent;

Ferrario Carlos M; Lackland Dan; Hawkins Ralph G; Reed

James; Rogers Philip; Wise Daniel; Moore Michael A

CORPORATE SOURCE: Consortium for Southeastern Hypertension Control, Beaufort,

South Carolina, USA.

SOURCE: The American journal of the medical sciences, (2005 Jun)

Vol. 329, No. 6, pp. 292-305. Ref: 109

Journal code: 0370506. ISSN: 0002-9629.

PUB. COUNTRY: United States

DOCUMENT TYPE: Conference; (CONSENSUS DEVELOPMENT CONFERENCE)

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

English LANGUAGE:

Abridged Index Medicus Journals; Priority Journals FILE SEGMENT:

ENTRY MONTH: .200507

Entered STN: 24 Jun 2005 ENTRY DATE:

> Last Updated on STN: 12 Jul 2005 Entered Medline: 11 Jul 2005

AB An aggressive global approach to screening and to the management of the metabolic syndrome is recommended to slow the growth of the syndrome throughout the United States. Prevention should begin in childhood with healthy nutrition, daily physical activity, and annual measurement of weight, height, and blood pressure beginning at 3 years of age. Such screenings will identify cardiovascular risk factors early, allow the health care provider to define global cardiovascular risk with the COSEHC Cardiovascular Risk Assessment Tool, and allow treatment of each risk factor. Lifelong lifestyle modifications and pharmacologic therapy will be required in most patients. Antihypertensive therapy for these patients should begin with an angiotensinconverting enzyme inhibitor or an angiotensin receptor blocker unless a compelling indication for another drug is present. Metformin should be considered the first drug for glucose control in the patient with type 2 diabetes. A statin should be used initially for hyperlipidemia unless contraindicated. Combinations of antihypertensive, antiglycemic, and lipidlowering agents will often be required.

CT

Antihypertensive Agents: TU, therapeutic use Antilipemic Agents: TU, therapeutic use Cardiovascular Diseases: ET, etiology

*Cardiovascular Diseases: PC, prevention & control

Child

Humans

Hyperlipidemias: CO, complications

*Hyperlipidemias: TH, therapy Hypertension: CO, complications

*Hypertension: TH, therapy

Hypoglycemic Agents: TU, therapeutic use

Life Style

Metabolic Syndrome X: CO, complications

*Metabolic Syndrome X: TH, therapy

Platelet Aggregation Inhibitors: TU, therapeutic use

Risk Factors

Southeastern United States

CN 0 (Antihypertensive Agents); 0 (Antilipemic Agents); 0 (Hypoglycemic Agents); 0 (Platelet Aggregation Inhibitors)

L62 ANSWER 21 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2005569826 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 16246214

TITLE: Diagnosis and management of the metabolic syndrome in

obesity.

AUTHOR: Liberopoulos E N; Mikhailidis D P; Elisaf M S

CORPORATE SOURCE: Department of Clinical Biochemistry, Royal Free Hospital

and University College Medical School (University of

London), London, UK.

SOURCE: Obesity reviews : an official journal of the International

Association for the Study of Obesity, (2005 Nov) Vol. 6,

No. 4, pp. 283-96. Ref: 126

Journal code: 100897395. ISSN: 1467-7881.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200601

ENTRY DATE: Entered STN: 26 Oct 2005

Last Updated on STN: 28 Jan 2006

Entered Medline: 27 Jan 2006

The metabolic syndrome is a constellation of interrelated abnormalities that increase the risk for cardiovascular disease and progression to type 2 diabetes. The prevalence of this syndrome is increasing because of the 'obesity epidemic'. The National Cholesterol Education Program Adult Treatment Panel III defined practical criteria for the diagnosis of the metabolic syndrome and established the basic principles for its management. Also, the International Diabetes Federation recently proposed another definition. The metabolic syndrome is a secondary target for cardiovascular risk reduction. Clinicians should identify individuals with this condition, assess their cardiovascular risk and treat them by an aggressive and multifaceted approach. The most effective therapeutic intervention in patients with the metabolic syndrome should focus on modest weight reduction and regular physical activity. Adoption of a healthier diet and smoking cessation are necessary. Drug therapy may be needed to achieve recommended goals if therapeutic lifestyle changes are not sufficient. Low-density lipoprotein cholesterol is the primary target of therapy (new aggressive goals should be achieved). Statins are probably the drugs of choice. Fibrates and nicotinic acid are also useful options. Hypertension should be managed aggressively probably starting with an inhibitor of the renin-angiotensin system or a calcium channel blocker and adding a low dose of a thiazide diuretic if necessary. Aspirin should be administered if the cardiovascular risk is high. In the future acarbose, metformin, meglitinides and

thiazolidinediones may be used in patients with the metabolic syndrome to delay the onset of type 2 diabetes and reduce cardiovascular risk. Such an intense and multifactorial approach is likely to reverse the bad prognosis associated with the metabolic syndrome.

CT Cardiovascular Diseases: ET, etiology

Cardiovascular Diseases: PC, prevention & control

Diabetes Mellitus, Type 2: ET, etiology

Diabetes Mellitus, Type 2: PC, prevention & control

Dyslipidemias: DT, drug therapy

Humans

Hyperglycemia: DT, drug therapy

Hypertension: TH, therapy

*Metabolic Syndrome X: DI, diagnosis *Metabolic Syndrome X: TH, therapy

*Obesity: CO, complications Risk Assessment: MT, methods

L62 ANSWER 22 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2004253047 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 15151470

TITLE: Treatment of metabolic syndrome.

AUTHOR: Wagh Arati; Stone Neil J

CORPORATE SOURCE: Departments of Endocrinology and Cardiology, Feinberg

School of Medicine, Northwestern University, 211 E Chicago

Avenue, 1050 Chicago, Il 60611, USA.

SOURCE: Expert review of cardiovascular therapy, (2004 Mar) Vol. 2,

No. 2, pp. 213-28. Ref: 117

Journal code: 101182328. ISSN: 1477-9072.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200408

ENTRY DATE: Entered STN: 21 May 2004

Last Updated on STN: 13 Aug 2004 Entered Medline: 12 Aug 2004

The metabolic syndrome is intended to identify patients who have increased AB risk of diabetes and/or a cardiac event due to the deleterious effects of weight gain, sedentary lifestyle, and/or an atherogenic diet. The National Cholesterol Education Program's Adult Treatment Panel III definition uses easily measured clinical findings of increased abdominal circumference, elevated triglycerides, low high-density lipoprotein-cholesterol, elevated fasting blood glucose and/or elevated blood pressure. Three of these five are required for diagnosis. The authors also note that other definitions of metabolic syndrome focus more on insulin resistance and its key role in this syndrome. This review focuses on how treatment might affect each of the five components. Abdominal obesity can be treated with a variety of lower calorie diets along with regular exercise. Indeed, all of the five components of the metabolic syndrome are improved by even modest amounts of weight loss achieved with diet and exercise. For those with impaired fasting glucose tolerance, there is good evidence that a high fiber, low saturated fat diet with increased daily exercise can reduce the incidence of diabetes by almost 60%. Of note, subjects who exercise the most, gain the most benefit. Metformin has also been shown to be helpful in these subjects. Thiazolidinedione drugs may prove useful, but further studies are needed. Although intensified therapeutic lifestyle change will help the abnormal lipid profile, some patients may require drug therapy. This review also discusses the use of statins, fibrates, and niacin. Likewise, while hypertension in the metabolic syndrome benefits from therapeutic lifestyle change, physicians should also

consider angiotensin converting enzyme inhibitor drugs or angiotensin receptor blockers, due to their effects on preventing complications of diabetes, such as progression of diabetic nephropathy and due to their effects on regression of left ventricular hypertrophy. Aspirin should be considered in those with at least a 10% risk of a coronary event over 10 years. Finally, three related conditions, nonalcoholic fatty liver disease, polycystic ovary syndrome and protease inhibitor associated lipodystrophy improve with therapeutic lifestyle change. Although metformin is shown to be useful with polycystic ovary syndrome, the data supporting drug therapy for the other syndromes is less convincing. More robust studies are needed before any firm recommendations can be made.

CT Abdomen

Adipose Tissue

Antihypertensive Agents: AD, administration & dosage

Antilipemic Agents: AD, administration & dosage

Blood Glucose: ME, metabolism

Blood Pressure

*Caloric Restriction

Cholesterol, HDL: BL, blood

Diabetes Mellitus, Type 2: ET, etiology *Diabetes Mellitus, Type 2: TH, therapy

Diet, Atherogenic Diet, Reducing

*Exercise

Humans

Hyperlipidemias: ET, etiology *Hyperlipidemias: TH, therapy Hypertension: ET, etiology *Hypertension: TH, therapy

Hypoglycemic Agents: AD, administration & dosage

*Life Style

Metabolic Syndrome X: DI, diagnosis Metabolic Syndrome X: ET, etiology

Metabolic Syndrome X: PP, physiopathology

*Metabolic Syndrome X: TH, therapy

Risk Factors

Triglycerides: BL, blood

Weight Gain Weight Loss

CN 0 (Antihypertensive Agents); 0 (Antilipemic Agents); 0 (Blood Glucose); 0 (Cholesterol, HDL); 0 (Hypoglycemic Agents); 0 (Triglycerides)

L62 ANSWER 23 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2003306325 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 12833770

TITLE: The type 2 tablet. Evidence based medication for

type 2 diabetes.

Phillips Patrick; Braddon Jody **AUTHOR:**

CORPORATE SOURCE: Queen Elizabeth Hospital and Health Service, Woodville,

South Australia.. pphillips@tqeh.nwahs.sa.gov.au

SOURCE:

Australian family physician, (2003 Jun) Vol. 32, No. 6, pp.

431-6. Ref: 23

Journal code: 0326701. ISSN: 0300-8495.

PUB. COUNTRY:

Australia

DOCUMENT TYPE: (CASE REPORTS)

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

200307

ENTRY DATE:

Entered STN: 2 Jul 2003

Last Updated on STN: 30 Jul 2003 Entered Medline: 29 Jul 2003

AB BACKGROUND: Diabesity--the association of type 2 diabetes and obesity--is a major public health problem worldwide and is increasing dramatically in Australia. The abnormalities associated with diabetes, the 'type 2 diabetes syndrome' are cardiovascular risk factors and increased cardiovascular events. The full implications of type 2 diabetes syndrome may not be fully appreciated and opportunities for effective interventions may be being missed. OBJECTIVE: This article aims to review the cardiovascular risk associated with type 2 diabetes syndrome and to summarise the evidence supporting wider use of medications that target the different components of type 2 diabetes syndrome. DISCUSSION: The cardiovascular benefits of metformin, the ACE inhibitors, aspirin and the statins have been shown in prospective controlled trials and the beneficial effects of these medications are additive. There is a case for these medications to be considered for those with type 2 diabetes (and an opportunity for the pharmaceutical industry to provide the 'type 2 tablet! containing all four medications).

CTCheck Tags: Male

Adult

Age Factors

*Angiotensin-Converting Enzyme Inhibitors: AD, administration &

Attitude to Health

Australia

Cardiovascular Diseases: EP, epidemiology

*Cardiovascular Diseases: PC, prevention & control

Comorbidity

Diabetes Mellitus: DI, diagnosis *Diabetes Mellitus: EP, epidemiology

Diabetes Mellitus, Type 2: DI, diagnosis

*Diabetes Mellitus, Type 2: DT, drug therapy *Diabetes Mellitus, Type 2: EP, epidemiology

Drug Combinations

Humans

*Hypoglycemic Agents: AD, administration & dosage

Middle Aged

*Obesity

Pharmaceutical Preparations

Evidence-Based Medicine

Prognosis

Risk Factors

Sensitivity and Specificity

Severity of Illness Index

CN 0 (Angiotensin-Converting Enzyme Inhibitors); 0 (Drug Combinations

); 0 (Hypoglycemic Agents); 0 (Pharmaceutical Preparations)

L62 ANSWER 24 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2003126161 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 12640189

TITLE: Clinical features and metabolic derangements in acquired

generalized lipodystrophy: case reports and review of the

literature.

AUTHOR: Misra Anoop; Garg Abhimanyu

CORPORATE SOURCE: Division of Nutrition and Metabolic Diseases, Department of

Internal Medicine, University of Texas Southwestern Medical

Center at Dallas, 75390, USA.

CONTRACT NUMBER: M01-RR00633 (NCRR)

R01-DK54387 (NIDDK)

Medicine, (2003 Mar) Vol. 82, No. 2, pp. 129-46. Ref: 75 SOURCE:

Journal code: 2985248R. ISSN: 0025-7974.

PUB. COUNTRY:

United States

DOCUMENT TYPE: (CASE REPORTS)

> Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

General Review; (REVIEW)

LANGUAGE:

English .

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

200304

ENTRY DATE:

Entered STN: 18 Mar 2003

Last Updated on STN: 18 Apr 2003 Entered Medline: 17 Apr 2003

AB We present clinical descriptions, metabolic features, and patterns of body fat loss of 16 patients with acquired generalized lipodystrophy (AGL) seen by us over the last 10 years. In addition, we review 63 cases of AGL reported in the literature. Based on these data, we propose new diagnostic criteria for AGL, the essential criterion being selective loss of body fat from large regions of the body occurring after birth. We also propose a subclassification of AGL into 3 varieties, type 1, the panniculitis variety; type 2, the autoimmune disease variety; and type 3, the idiopathic variety, which affect nearly 25%, 25%, and 50% of patients, respectively. Most of the patients presented in childhood and adolescence. Females were affected approximately 3 times more than males. Subcutaneous fat loss was severe and usually affected the face, trunk, abdomen, and extremities. In some patients, fat loss also involved the palms and soles and intraabdominal region; however, the bone marrow and retroorbital fat were preserved in all patients. Clinically, patients may have voracious appetite, fatigue, and acanthosis nigricans. Hepatomegaly was common, mostly due to hepatic steatosis. Most AGL patients had fasting and/or postprandial hyperinsulinemia, diabetes mellitus, hypertriglyceridemia, and low serum levels of high-density lipoprotein cholesterol, leptin, and adiponectin. Diabetes mellitus and hypertriglyceridemia were less prevalent in the panniculitis variety compared with the idiopathic and autoimmune varieties. The management of AGL includes cosmetic surgery for loss of fat. Severe hypertriglyceridemia should be treated with a very low-fat diet and omega-3 polyunsaturated fatty acid supplementation from fish oils. Management of diabetes is difficult and may necessitate insulin therapy in large doses. Insulin sensitizers such as metformin and thiazolidinediones have been used, although their long-term efficacy and safety remain unknown. Subcutaneous administration of recombinant leptin in AGL patients with hypoleptinemia effectively improves hyperglycemia, hypertriglyceridemia, and hepatic steatosis. Leptin therapy, however, remains investigational. Fibrates alone or in combination with statins may be used to treat hypertriglyceridemia.

CTCheck Tags: Female; Male

> *Adipose Tissue: ME, metabolism Adipose Tissue: RA, radiography Adipose Tissue: SU, surgery

Adolescent

Antilipemic Agents: TU, therapeutic use

Body Composition

Child

Child, Preschool

Diabetes Complications

Diabetes Mellitus: DT, drug therapy Glucose Intolerance: ET, etiology Glucose Intolerance: TH, therapy

Humans

Hypertriglyceridemia: DT, drug therapy

Hypertriglyceridemia: ET, etiology

Leptin: ME, metabolism

Leptin: TU, therapeutic use *Lipodystrophy: DI, diagnosis

*Lipodystrophy: ME, metabolism Lipodystrophy: TH, therapy Magnetic Resonance Imaging

Middle Aged

Reconstructive Surgical Procedures

Treatment Outcome

0 (Antilipemic Agents); 0 (Leptin) CN

L62 ANSWER 25 OF 41 MEDLINE on STN

ACCESSION NUMBER: 2003348697 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 12880692

TITLE: Reducing coronary heart disease associated with

type 2 diabetes: lifestyle

intervention and treatment of dyslipidaemia.

AUTHOR: Tuomilehto Jaakko

CORPORATE SOURCE: Diabetes and Genetic Epidemiology Unit, National Public

Health Institute, Mannerheimintie 166, 00300 Helsinki,

Finland.. jaakko.tuomilehto@ktl.fi

Diabetes research and clinical practice, (2003 Jul) Vol. 61 SOURCE:

Suppl 1, pp. S27-34. Ref: 23

Journal code: 8508335. ISSN: 0168-8227.

PUB. COUNTRY:

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 200404

ENTRY DATE: Entered STN: 26 Jul 2003

> Last Updated on STN: 24 Apr 2004 Entered Medline: 23 Apr 2004

AB Efforts to reduce the burden of coronary heart disease (CHD) associated with type 2 diabetes should include increased emphasis on preventing progression to diabetes in individuals with impaired glucose tolerance. Recent large-scale studies have shown that lifestyle intervention can reduce progression to diabetes by nearly 60%. Dyslipidaemia is a risk factor for CHD in diabetic patients. Accumulation of evidence indicating significant reductions in CHD risk with statin treatment to lower low-density lipoprotein (LDL)-cholesterol has led to the recommendation that reduction of LDL-cholesterol be considered the highest priority in treating diabetic dyslipidaemia; additional aims of treatment include raising high-density lipoprotein (HDL)-cholesterol and reducing triglyceride levels. In a recent trial of rosuvastatin alone or combined with fenofibrate in diabetic patients with combined hyperlipidaemia, rosuvastatin 40 mg monotherapy produced marked beneficial changes in LDLcholesterol (-47%), HDL-cholesterol (+6%) and triglycerides (-30%), with the combination of lower-dose rosuvastatin (10 mg) and fenofibrate producing a significantly greater triglyceride reduction (-47%) and comparable changes in other lipid measures. Combination therapies for dyslipidaemia may be the key to optimizing CHD risk reduction in type 2 diabetes. CT

Antilipemic Agents: TU, therapeutic use

Body Weight

Clinical Trials

Coronary Disease: ET, etiology

*Coronary Disease: PC, prevention & control

Coronary Disease: TH, therapy

*Diabetes Mellitus, Type 2: CO, complications

Diabetes Mellitus, Type 2: ME, metabolism

Diabetes Mellitus, Type 2: PC, prevention & control

Drug Therapy, Combination

Fluorobenzenes: TU, therapeutic use

Humans

Hyperlipidemias: CO, complications

*Hyperlipidemias: TH, therapy

Hypoglycemic Agents: TU, therapeutic use

Life Style

Metformin: TU, therapeutic use

Motor Activity

Procetofen: TU, therapeutic use Pyrimidines: TU, therapeutic use Sulfonamides: TU, therapeutic use

RN 287714-41-4 (rosuvastatin); 49562-28-9 (Procetofen); 657-24-9

(Metformin)

CN 0 (Antilipemic Agents); 0 (Fluorobenzenes); 0 (Hypoglycemic Agents); 0

(Pyrimidines); 0 (Sulfonamides)

L62 ANSWER 26 OF 41 MEDLINE on STN

ACCESSION NUMBER: 1999051815 MEDLINE Full-text

DOCUMENT NUMBER: PubMed ID: 9834750

TITLE: Care of adults with type 2

diabetes mellitus. A review of the evidence.

AUTHOR: O'Connor P J; Spann S J; Woolf S H

CORPORATE SOURCE: HealthPartners Research Foundation, Minneapolis, Minnesota

55440-1309, USA.

SOURCE: The Journal of family practice, (1998 Nov) Vol.

47, No. 5 Suppl, pp. S13-22. Ref: 67 Journal code: 7502590. ISSN: 0094-3509.

PUB. COUNTRY:

United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199812

ENTRY DATE: Entered STN: 15 Jan 1999

Last Updated on STN: 15 Jan 1999 Entered Medline: 16 Dec 1998

AB BACKGROUND: The purpose of this study was to provide primary care physicians with a concise review of the evidence that guides selected aspects of type 2 diabetes care, including glycemic control, macrovascular risk reduction, and screening for microvascular complications of diabetes. METHODS: We identified randomized clinical trials that addressed selected aspects of the care of adults with type 2 diabetes using systematic literature review, review of existing clinical guidelines, and other sources. The results of these trials were interpreted as absolute risk reduction, and the number of patients that need to be treated to obtain a specific clinical outcome was calculated. RESULTS: Good glycemic control with metformin may reduce overall mortality in obese patients with type 2 diabetes (number need to treat [NNT] = 14 for 10 years), and improved blood pressure control reduced diabetes-related mortality (NNT = 15 for 10 years); improved glycemic control with agents other than metformin, or with combinations including metformin, does not reduce diabetesrelated or overall mortality. Major cardiovascular events (CVE) in type 2 diabetes can be prevented by control of blood pressure with low-dose diuretics, atenolol, or angiotensin-converting enzyme inhibitors (NNT = 10 to 20 for 5 to 10 years for primary prevention of one CVE); by use of aspirin (NNT = 45 for 5 years for primary prevention of one CVE); and by use of simvastatin to lower low-density lipoprotein (LDL) cholesterol (NNT = 6 for 5 years for secondary prevention of one CVE). Glycemic control (NNT = 19 for 10

years) and hypertension control (NNT = 6 for 10 years) slow the progression of complications in patients with type 2 diabetes. Retinopathy and nephropathy are more preventable than neuropathy. The benefits of glycemic control are less for patients with shorter life expectancy and are greater for those with the highest levels of Hb Alc because larger Hb Alc improvements can be achieved in such patients. Periodic screening of patients for eye, kidney, and foot complications is supported because effective early treatment of these complications is available. CONCLUSIONS: In patients with type 2 diabetes, control of hypertension reduces microvascular and macrovascular complications more than glycemic control does. Control of LDL cholesterol with statins, aspirin, and smoking cessation reduce major cardiovascular events. Metformin reduces overall mortality in obese patients with creatinine levels < 1.5 mq/dL. Glycemic control reduces microvascular complications. The evidence supports angiotensin-converting enzyme inhibitors, atenolol, or low-dose diuretics for blood pressure control. Effective treatment of eye, kidney, and foot complications is available, and regular screening for these complications is justified.

CT Adult

Aged

Diabetes Mellitus, Type 2: CO, complications

Diabetes Mellitus, Type 2: MO, mortality

*Diabetes Mellitus, Type 2: TH, therapy

Diabetic Nephropathies: PC, prevention & control Diabetic Neuropathies: PC, prevention & control

Evidence-Based Medicine

Humans

Hypertension: CO, complications Hypertension: DT, drug therapy

Hypertension: PC, prevention & control

Middle Aged

Randomized Controlled Trials

L62 ANSWER 27 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER:

2002182153 EMBASE Full-text

TITLE:

Teaching patients to monitor their risk factors retards the progression of vascular complications in high-risk patients

with Type 2 diabetes mellitus
- A randomized prospective study.

AUTHOR: CORPORATE SOURCE:

Rachmani R.; Levi Z.; Slavachevski I.; Avin M.; Ravid M. Prof. M. Ravid, Meir Hospital, Kfar-Sava 44281, Israel.

motirv@clalit.org.il

SOURCE:

Diabetic Medicine, (2002) Vol. 19, No. 5, pp. 385-392. .

Refs: 38

ISSN: 0742-3071 CODEN: DIMEEV

COUNTRY:

United Kingdom

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

006 Internal Medicine

O17 Public Health, Social Medicine and Epidemiology
O18 Cardiovascular Diseases and Cardiovascular Surgery

037 Drug Literature Index

LANGUAGE:

English English

SUMMARY LANGUAGE: ENTRY DATE:

Entered STN: 6 Jun 2002

Last Updated on STN: 6 Jun 2002

AB Aims: Intensive management of risk parameters in diabetic patients may retard the progression of both micro- and macrovascular complications. Intensified care requires expert staff and is expensive. The aim of the present study was to examine whether sharing the therapeutic responsibility with the patients will improve the outcome. Methods: A randomized prospective study of 165

patients with diabetes mellitus Type 2, hypertension (>140/90 mmHg) and hyperlipidaemia (LDL-C >120 mg/dl). Patients were randomly allocated to standard annual consultation (SC) or to a patient participation programme (PP). The medical care for both groups was administered by primary care physicians, who were unaware of the nature of the intervention. Results: At 4 years the mean blood pressure was 148/88 (±6.1/1.7) mmHg in the SC patients vs. 142/84 ($\pm 5.8/1.8$) mmHg in the PP group (P=0.02). The mean LDL-C was 124 ± 8 and 114 ± 6 mg/dl (P=0.01) and the mean HbA(1c) was $8.9\pm1.2\%$ and $8.2\pm1.5\%$ (P=0.04) in the SC and PP groups, respectively. The average annual fall in estimated glomerular filtration rate was 3.5 ml/min per year in the SC group vs. 2.25 in the PP group (P<0.05). Albumin/creatinine ratio >300 mg/g developed in four SC patients vs. none of the PP patients. There was a total of 36 cardiovascular events in the SC group vs. 23 in the PP group (P=0.04). All patients in the PP group received ACE inhibitors (or AII blockers) and statins vs. 52% and 43%, respectively, in the SC group. Glucose-lowering regimens were similar. Conclusions: Well-informed and motivated patients were more insistent to reach and maintain target values of the main risk factors of diabetic complications. The differences between the PP and SC groups were of the same order of magnitude as those between intensive and standard care groups in other studies albeit with, comparatively, a very modest cost. Medical Descriptors: *non insulin dependent diabetes mellitus: DT, drug therapy *patient education *diabetic angiopathy: CO, complication *diabetic angiopathy: PC, prevention risk factor hypertension: DT, drug therapy hyperlipidemia: DT, drug therapy medical care physician blood pressure glomerulus filtration rate microalbuminuria treatment outcome cardiovascular risk disease course high risk population human male female major clinical study clinical trial randomized controlled trial controlled study aged adult article Drug Descriptors: *low density lipoprotein cholesterol: EC, endogenous compound *hemoglobin Alc: EC, endogenous compound dipeptidyl carboxypeptidase inhibitor: DT, drug therapy dipeptidyl carboxypeptidase inhibitor: PD, pharmacology beta adrenergic receptor blocking agent: DT, drug therapy beta adrenergic receptor blocking agent: PD, pharmacology alpha adrenergic receptor blocking agent: DT, drug therapy alpha adrenergic receptor blocking agent: PD, pharmacology antilipemic agent: DT, drug therapy antilipemic agent: PD, pharmacology

CT

63

hydrochlorothiazide: DT, drug therapy hydrochlorothiazide: PD, pharmacology

acetylsalicylic acid: DT, drug therapy

sulfonylurea: DT, drug therapy
sulfonylurea: PD, pharmacology
metformin: DT, drug therapy
metformin: PD, pharmacology
insulin: DT, drug therapy

insulin: DI, drug therapy insulin: PD, pharmacology

calcium channel blocking agent: DT, drug therapy calcium channel blocking agent: PD, pharmacology

glucose: EC, endogenous compound

RN (hemoglobin Alc) 62572-11-6; (hydrochlorothiazide) 58-93-5; (acetylsalicylic acid) 493-53-8, 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1; (metformin) 1115-70-4, 657-24-9; (insulin)

9004-10-8; (glucose) 50-99-7, 84778-64-3

CN Aspirin

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ACCESSION NUMBER: 2002221449 EMBASE Full-text

TITLE: Lipid response to pioglitazone in diabetic patients:

Clinical observations from a retrospective chart review.

AUTHOR: King A.B.; Armstrong D.U.

CORPORATE SOURCE: Dr. A.B. King, Diabetes Care Center, 1119 Pajaro St.,

Salinas, CA 93901, United States. akvineyards@email.msn.com

SOURCE: Diabetes Technology and Therapeutics, (2002) Vol. 4, No. 2,

pp. 145-151. .

Refs: 19

ISSN: 1520-9156 CODEN: DTTHFH

COUNTRY: United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 003 Endocrinology

037 Drug Literature Index038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 11 Jul 2002

Last Updated on STN: 11 Jul 2002

AB The objective of this study was to determine whether improvements in the lipid profile observed in controlled clinical trials with pioglitazone are seen in the clinical practice setting, and to ascertain the influence of concurrent statin treatment. Charts of 100 consecutive patients with type 2 diabetes (mean age 56.8 years) treated with pioglitazone (45 mg/day) for 2-4 months were retrospectively analyzed for changes in serum lipids, glycemic parameters, and body weight. Subanalyses were performed on the relationship of lipid changes to baseline lipid values and to concurrent statin therapy. Pioglitazone was associated with statistically significant (p < 0.001) changes from baseline in HbAlc (mean decrease 1.09%), body weight (mean increase 1.76 kg), HDL cholesterol (HDL-C) levels (mean increase 15.6%), and triglycerides (mean decrease 9.9%). There was an increase (+1.09%) in mean individual LDL-C levels from baseline values, but this change was not statistically significant. The greatest absolute and percentage improvements in HDL-C and triglycerides were observed in patients who had the greatest lipid abnormalities at baseline: in patients with baseline HDL-C < 35 mg/dL, mean individual HDL-C values increased by 31% (p < 0.001); in those with baseline triglycerides > 399 mg/dL, triglyceride levels decreased by 46% (p < 0.001); and in patients with baseline LDL-C > 129 mg/dL, mean individual LDL-C values decreased by 10.6% (p < 0.001). Subgroup analysis showed similar beneficial changes in HDL-C and triglycerides in patients who were not receiving concurrent statin therapy (n = 48) as in those who were receiving statins (n = This observational study demonstrated that significant improvements in

HDL-C and triglyceride levels can be achieved with pioglitazone in the clinical practice setting. The greatest improvements occurred in patients with the worst baseline lipid levels, and benefits were seen regardless of whether patients were receiving concurrent statin therapy. Medical Descriptors: *diabetes mellitus: DT, drug therapy *dyslipidemia: DT, drug therapy drug response cholesterol blood level triacylglycerol blood level drug effect edema: SI, side effect hypoglycemia: SI, side effect anemia: SI, side effect human male female clinical trial aged adult article priority journal Drug Descriptors: *pioglitazone: AE, adverse drug reaction *pioglitazone: CT, clinical trial *pioglitazone: CB, drug combination *pioglitazone: DT, drug therapy *pioglitazone: PD, pharmacology *lipid hydroxymethylglutaryl coenzyme A reductase inhibitor: CB, drug combination hydroxymethylglutaryl coenzyme A reductase inhibitor: DT, drug therapy high density lipoprotein cholesterol triacylglycerol metformin: DT, drug therapy sulfonylurea derivative: DT, drug therapy repaglinide: DT, drug therapy insulin: DT, drug therapy hemoglobin Alc. (pioglitazone) 105355-27-9, 111025-46-8; (lipid) 66455-18-3; (metformin) 1115-70-4, 657-24-9; (repaglinide) 135062-02-1; (insulin) 9004-10-8; (hemoglobin Alc) 62572-11-6 ANSWER 29 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN ACCESSION NUMBER: 2001123661 EMBASE Full-text TITLE: Simvastatin treatment on postprandial hypertriglyceridemia in type 2 diabetes mellitus patients with combined hyperlipidemia. AUTHOR: Sheu W.H.-H.; Jeng C.-Y.; Lee W.-J.; Lin S.-Y.; Pei D.; Chen Y.-T. CORPORATE SOURCE: Dr. W.H.-H. Sheu, Div. of Endocrinology and Metabolism, Taichung Veterans General Hospital, No. 160, Section 3, Chung-Kang Road, Taichung 407, Taiwan, Province of China SOURCE: Metabolism: Clinical and Experimental, (2001) Vol. 50, No. 3, pp. 355-359. . Refs: 40 ISSN: 0026-0495 CODEN: METAAJ COUNTRY: United States

Journal; Article

DOCUMENT TYPE:

FILE SEGMENT: 029 Clinical Biochemistry

030 Pharmacology003 Endocrinology

037 Drug Literature Index

LANGUAGE: English
SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 12 Apr 2001

Last Updated on STN: 12 Apr 2001

AB Recent studies have shown that statins are effective in reducing fasting lowdensity lipoprotein-cholesterol (LDL-C) and triglyceride levels. However, it remains unknown if treatment with statins also lowers daily postprandial triglyceride concentrations, which may promote atherogenesis in type 2 diabetes subjects. Forty-one subjects with type 2 diabetes and combined hyperlipidemia who had stable glycemic control were randomly assigned to take simvastatin 20 mg (n = 27) or a placebo (n = 14) once daily for 12 weeks. medication dosage was doubled after 4 weeks if a subject's LDL-C was not less than 130 mg/dL. Among these participants, 24 subjects (15 on simvastatin and 9 on placebo) agreed to take a meal tolerance test with isocaloric mixed meals (carbohydrate, 52%; fat, 33%, and protein, 15% of the daily caloric intake) and daytime hourly blood sampling from 8 AM to 4 PM. Simvastatin treatment reduced the fasting total cholesterol level from 237 ± 5 to 178 ± 6 mg/dL (-25%), the LDL cholesterol level from 150 \pm 6 to 87 \pm 5 mg/dL (-40%), and raised high-density lipoprotein-cholesterol (HDL-C) level from 36 \pm 2 to 40 \pm 2 mg/dL (+11%) (all P < .001). Fasting and daily ambient triglyceride concentrations from 8 AM to 4 PM decreased significantly in response to simvastatin administration (P < .001), but not to the placebo (P = .305). Simvastatin treatment not only decreased total cholesterol and LDL-C levels and increased HDL-C levels effectively, it also decreased fasting, as well as daily postprandial triglyceride concentrations, but had no effect on glycemic control in type 2 diabetes subjects with combined hyperlipidemia. Copyright .COPYRGT. 2001 by W.B. Saunders Company.

CT Medical Descriptors:

*hypertriglyceridemia: DT, drug therapy

*hypertriglyceridemia: DM, disease management

*non insulin dependent diabetes mellitus: DT, drug therapy

*non insulin dependent diabetes mellitus: DM, disease management

*hyperlipidemia: DT, drug therapy

*hyperlipidemia: DM, disease management

controlled study

human

clinical article

clinical trial

randomized controlled trial

double blind procedure

female

male

adult

drug efficacy

postprandial state

triacylglycerol blood level

cholesterol blood level

diabetes control

atherogenesis

dose response

test meal

disease association

caloric intake

nutritional tolerance

blood sampling

diet restriction.

```
comparative study
     drug potency
     drug use .
     body mass
     treatment outcome
     article
     priority journal
     Drug Descriptors:
     *simvastatin: PD, pharmacology
     *simvastatin: CT, clinical trial
    *simvastatin: DO, drug dose
     *simvastatin: DT, drug therapy
     placebo
     triacylglycerol: EC, endogenous compound
     low density lipoprotein cholesterol: EC, endogenous compound
     carbohydrate ·
     protein
     fat
     high density lipoprotein cholesterol: EC, endogenous compound
     antidiabetic agent: DT, drug therapy
     antidiabetic agent: PO, oral drug administration
     antidiabetic agent: PD, pharmacology
     antihypertensive agent: DT, drug therapy
     sulfonylurea: DT, drug therapy
       metformin: DT, drug therapy
     glucose: EC, endogenous compound
     (simvastatin) 79902-63-9; (protein) 67254-75-5; (metformin)
     1115-70-4, 657-24-9; (glucose) 50-99-7, 84778-64-3
L62 ANSWER 30 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights
     reserved on STN
ACCESSION NUMBER:
                    2001387086 EMBASE
                                          Full-text
                    Highlights from the 61st Scientific Sessions of the ADA
TITLE:
                    June 22-26, 2001, Philadelphia, USA.
                    Practical Diabetes International, (2001) Vol. 18, No. 7,
SOURCE:
                    pp. 251-258. .
                    ISSN: 1357-8170 CODEN: PDINFY
COUNTRY:
                    .United Kingdom
DOCUMENT TYPE:
                    Journal; Conference Article
FILE SEGMENT:
                    003
                            Endocrinology
                    017
                            Public Health, Social Medicine and Epidemiology
                    030
                            Pharmacology
                    029
                            Clinical Biochemistry
                    039
                            Pharmacy
                    038
                            Adverse Reactions Titles
                    006
                            Internal Medicine
                    037
                            Drug Literature Index
LANGUAGE:
                    English
ENTRY DATE:
                    Entered STN: 26 Nov 2001
                    Last Updated on STN: 26 Nov 2001
     Medical Descriptors:
     *diabetes mellitus: DT, drug therapy
     *diabetes mellitus: SU, surgery
     *diabetes mellitus: DM, disease management
     *diabetes mellitus: EP, epidemiology
     *diabetes mellitus: PC, prevention
     human
     clinical trial
     nonhuman
     symposium
```

```
socioeconomics
risk assessment
physician attitude
United States
education
age
high risk population
prevalence
dose response
elderly care
health survey
lifestyle
postprandial state
  hyperglycemia: CO, complication
  hyperglycemia: PC, prevention
  hyperglycemia: DT, drug therapy
diabetic obesity
disease association
diet
health promotion
weight reduction
Internet
cardiovascular disease: PC, prevention
pancreas islet transplantation
immunosuppressive treatment
long term care
blood glucose monitoring
awareness
social aspect
diabetes control
health care quality
bleeding: CO, complication
portal vein thrombosis: CO, complication
bladder injury: CO, complication
hypercholesterolemia: SI, side effect
metabolic disorder: SI, side effect
United Kingdom
evidence based medicine
quality of life
drug delivery system
drug absorption
visual impairment
drug mechanism
conference paper
Drug Descriptors:
*antidiabetic agent: DT, drug therapy
  *antidiabetic agent: CB, drug combination
*antidiabetic agent: DV, drug development
*antidiabetic agent: PR, pharmaceutics
*antidiabetic agent: CT, clinical trial
*antidiabetic agent: IH, inhalational drug administration
*antidiabetic agent: AE, adverse drug reaction
*antidiabetic agent: PO, oral drug administration
*antidiabetic agent: DO, drug dose
*antidiabetic agent: PK, pharmacokinetics
*antidiabetic agent: PD, pharmacology
*antidiabetic agent: SC, subcutaneous drug administration
insulin: DT, drug therapy
  insulin: CB, drug combination
insulin: PR, pharmaceutics
```

CT

```
insulin: CT, clinical trial
insulin: IH, inhalational drug administration
insulin: CM, drug comparison
insulin: AE, adverse drug reaction
insulin: PO, oral drug administration
insulin: DO, drug dose
insulin: PK, pharmacokinetics
repaglinide: DT, drug therapy
repaglinide: PD, pharmacology
repaglinide: CT, clinical trial
repaglinide: DO, drug dose
nateglinide: DT, drug therapy
nateglinide: PD, pharmacology
nateglinide: CT, clinical trial
nateglinide: CM, drug comparison
tetrahydrolipstatin: DT, drug therapy
  statin ·
immunosuppressive agent: DT, drug therapy
  immunosuppressive agent: CB, drug combination
immunosuppressive agent: AE, adverse drug reaction
immunosuppressive agent: DO, drug dose
glucose: EC, endogenous compound
rapamycin: DT, drug therapy
  rapamycin: CB, drug combination
rapamycin: AE, adverse drug reaction
rapamycin: DO, drug dose
rapamycin: CT, clinical trial
rapamycin: PD, pharmacology
tsukubaenolide: DT, drug therapy
  tsukubaenolide: CB, drug combination
tsukubaenolide: AE, adverse drug reaction
thiazole derivative: DV, drug development
thiazole derivative: DT, drug therapy
  thiazole derivative: CB, drug combination
thiazole derivative: PD, pharmacology
glimepiride: DV, drug development
glimepiride: DT, drug therapy
  glimepiride: CB, drug combination
troglitazone: DV, drug development
troglitazone: DT, drug therapy
  troglitazone: CB, drug combination
insulin derivative: DT, drug therapy
insulin derivative: CT, clinical trial
  insulin derivative: CB, drug combination
isophane insulin: DT, drug therapy
  isophane insulin: CB, drug combination
isophane insulin: CT, clinical trial
isophane insulin: SC, subcutaneous drug administration
isophane insulin: AE, adverse drug reaction
sulfonylurea: DT, drug therapy
sulfonylurea: PD, pharmacology
  metformin: DT, drug therapy
  metformin: PD, pharmacology
  metformin: CM, drug comparison
placebo
atorvastatin: DT, drug therapy
atorvastatin: CT, clinical trial
atorvastatin: DO, drug dose
rosuvastatin: DT, drug therapy
unclassified drug
```

RN (insulin) 9004-10-8; (repaglinide) 135062-02-1; (nateglinide) 105746-37-0, 105816-04-4, 105816-06-6; (tetrahydrolipstatin) 96829-58-2; (glucose) 50-99-7, 84778-64-3; (rapamycin) 53123-88-9; (tsukubaenolide) 104987-11-3; (glimepiride) 93479-97-1; (troglitazone) 97322-87-7; (isophane insulin) 9004-17-5; (metformin) 1115-70-4, 657-24-9; (atorvastatin) 134523-00-5, 134523-03-8

CN Orlistat

L62 ANSWER 31 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2001304504 EMBASE Full-text

TITLE: Heart disease in Asian people with diabetes.

AUTHOR: Lawrence I.G.; McNally P.G.

CORPORATE SOURCE: Dr. I.G. Lawrence, Dept. of Diabetes and Endocrinology,

Leicester Royal Infirmary, Univ. Hosp. of Leicester NHS Trust, Infirmary Square, Leicester LE1 5WW, United Kingdom

SOURCE: Practical Diabetes International, (2001) Vol. 18, No. 6,

pp. 192-196. .

Refs: 36

ISSN: 1357-8170 CODEN: PDINFY

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 018 Cardiovascular Diseases and Cardiovascular Surgery

003 Endocrinology

017 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index

030 Pharmacology

029 Clinical Biochemistry

036 Health Policy, Economics and Management

005 General Pathology and Pathological Anatomy

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 13 Sep 2001

Last Updated on STN: 13 Sep 2001

AB Type 2 diabetes is increased up to four-fold in middle-aged and older Indo-Asian people, and associated with increased coronary heart disease (CHD), and premature morbidity and mortality. Seventy-seven percent of deaths in Indo-Asian people with diabetes were caused by cardiovascular disease, compared with 46% European deaths, in the Southall Diabetes Survey. The Indo-Asian communities have an increased inherited lipoprotein (a) level compared to white Europeans, whilst migration results in the unmasking of a cluster of cardiovascular risk-factors incorporating central obesity, hyperinsulinaemia, type 2 diabetes and dyslipidaemia. Conventional cardiovascular risk factors are important, and in India, current smoking, hypertension and overt diabetes mellitus are the strongest predictors of a first acute myocardial infarction (AMI). Hyperlipidaemia may have a less important causal role in an Indian setting, but the situation is likely to be different in a migratory Indo-Asian population. Unfortunately there is a lamentable lack of intervention studies in Indo-Asian diabetic people with CHD, and currently the evidence base from other populations needs to be extrapolated. The six month mortality in Indo-Asian people post AMI is double the white European population, despite similar use of aspirin, thrombolysis and beta blockade, and is primarily due to the increased prevalence of diabetes. This stresses the importance of active treatment of all cardiovascular risk factors, including hyperglycaemia in the peri-infarct period. Active health promotion addressing physical activity and modifying dietary intake is crucial in the Indo-Asian communities, and campaigns such as Project Dil in Leicestershire have incorporated both primary and secondary prevention. The extrapolated evidence base would suggest that early use of angiotensin-converting enzyme inhibition, statin and/or fibrate therapy, and insulin therapy may all benefit Indo-Asian diabetic people with

CHD, while metformin should be the first-line oral hypoglycaemic agent in most Indo-Asian diabetic people without CHD. Copyright .COPYRGT. 2001 John Wiley & Sons, Ltd. Medical Descriptors: *ischemic heart disease: ET, etiology *ischemic heart disease: EP, epidemiology *ischemic heart disease: DT, drug therapy *ischemic heart disease: DM, disease management *ischemic heart disease: TH, therapy *ischemic heart disease: PC, prevention *non insulin dependent diabetes mellitus: DT, drug therapy *non insulin dependent diabetes mellitus: DM, disease management *non insulin dependent diabetes mellitus: TH, therapy *non insulin dependent diabetes mellitus: PC, prevention human clinical trial Asian disease association morbidity mortality cardiovascular disease Europe health survey lipoprotein blood level migration cardiovascular risk obesity hyperinsulinemia dyslipidemia India smoking hypertension acute heart infarction hyperlipidemia evidence based medicine population research hyperglycemia prevalence health promotion physical activity dietary intake primary prevention secondary prevention blood clot lysis beta adrenergic receptor blocking pathogenesis health care delivery treatment outcome risk factor disease marker review Drug Descriptors: lipoprotein: EC, endogenous compound acetylsalicylic acid: DT, drug therapy fibrinolytic agent: DT, drug therapy beta adrenergic receptor blocking agent: DT, drug therapy dipeptidyl carboxypeptidase inhibitor: DT, drug therapy antilipemic agent: DT, drug therapy fibric acid derivative: DT, drug therapy insulin: DT, drug therapy

10/568523 insulin: CB, drug combination metformin: DT, drug therapy metformin: PO, oral drug administration oral antidiabetic agent: DT, drug therapy oral antidiabetic agent: PO, oral drug administration gemfibrozil: DT, drug therapy thiazole derivative: DT, drug therapy thiazole derivative: CT, clinical trial thiazole derivative: PD, pharmacology rosiglitazone: DT, drug therapy rosiglitazone: CT, clinical trial rosiglitazone: PD, pharmacology pioglitazone: DT, drug therapy glucose: CB, drug combination glucose: DT, drug therapy potassium: CB, drug combination potassium: DT, drug therapy (acetylsalicylic acid) 493-53-8, 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1; (insulin) 9004-10-8; (metformin) 1115-70-4, 657-24-9; (gemfibrozil) 25812-30-0; (rosiglitazone) 122320-73-4, 155141-29-0; (pioglitazone) 105355-27-9, 111025-46-8; (glucose) 50-99-7, 84778-64-3; (potassium) 7440-09-7 L62 ANSWER 32 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights reserved on STN ACCESSION NUMBER: 2001084431 EMBASE Full-text TITLE: Management of type 2 diabetes mellitus in the elderly: Special considerations. **AUTHOR:** Rosenstock J. CORPORATE SOURCE: Dr. J. Rosenstock, Dallas Diabetes and Endocrine Center, Medical City Dallas, 7777 Forest Lane, Dallas, TX 75230, United States. juliorosenstock@dallasdiabetes.com Drugs and Aging, (2001) Vol. 18, No. 1, pp. 31-44. . SOURCE: Refs: 52 ISSN: 1170-229X CODEN: DRAGE6 COUNTRY: New Zealand DOCUMENT TYPE: Journal; General Review 003 FILE SEGMENT: Endocrinology 020 Gerontology and Geriatrics 037 Drug Literature Index 038 Adverse Reactions Titles LANGUAGE: English SUMMARY LANGUAGE: English ENTRY DATE: Entered STN: 29 Mar 2001 Last Updated on STN: 29 Mar 2001 The principles of managing type 2 diabetes mellitus in the elderly are no different from those in younger patients but the priorities and therapeutic strategies need to be cautiously individualised. The objectives of treatment are to improve glycaemic control in a stepwise approach that involves nonpharmacological methods including diet and exercise, and pharmacological therapy including mixtures of oral antihyperglycaemic agents alone or in combination with insulin. Although the goals of treatment may be the same for elderly and younger patients, certain aspects of type 2 diabetes in the elderly require special consideration. Treatment decisions are influenced by age and life expectancy comorbid conditions and severity of the vascular

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AB

medication regimens may be compromised by comorbid conditions and psychosocial limitations. Drug-induced hypoglycaemia has been the main consideration and

macrovascular and microvascular complications of type 2 diabetes are a source

complications. Adherence to dietary therapy, physical activity, and

the most serious potential complication. In addition, the long term

of significant morbidity and mortality. Indeed, vascular and neuropathic complications are already present at the time of diagnosis in a significant number of patients, and the impact of improved diabetes control depends on the age and life expectancy of the patient. Age-related changes in pharmacokinetics and the potential for adverse effects and drug interactions should also be considered when choosing appropriate pharmacological therapy. In general, a conservative and stepwise approach to the treatment of the elderly patient with type 2 diabetes is suggested: treatment may be initiated with monotherapy, followed by early intervention with a combination of oral agents including a sulphonylurea as a foundation insulin secretagoque in addition to a supplemental insulin sensitiser. Insulin therapy is eventually required if significant hyperglycaemia [glycosylated haemoglobin (HbA (lc)) >8%] persists despite oral combination therapy. Combination therapy with evening insulin and a long-acting sulphonylurea such as glimepiride is an effective strategy to improve hyperglycaemia in the elderly patient with type 2 diabetes in whom polypharmacy with oral agents is unsuccessful. In addition, such a regimen is simple to follow for the patient who may not be able to adhere to a more complicated insulin regimen. Hyperglycaemia in the elderly can be managed well with practical intervention and a straightforward treatment plan to enhance compliance. Optimal glycaemic control should be possible for every patient if treatment is individualised: however, strict glycaemic control may not be achievable in all patients or even desirable in many elderly patients.

CTMedical Descriptors: *non insulin dependent diabetes mellitus: DT, drug therapy treatment planning exercise age life expectancy disease severity diet therapy hypoglycemia: SI, side effect mortality morbidity clinical feature coronary artery disease: CO, complication. cerebrovascular disease: CO, complication peripheral vascular disease: CO, complication hyperlipidemia: CO, complication hyperlipidemia: DT, drug therapy diabetic nephropathy: CO, complication diabetic nephropathy: DT, drug therapy diabetic neuropathy: CO, complication diabetic neuropathy: DT, drug therapy stomach paresis: CO, complication side effect: SI, side effect practice guideline human aged review priority journal Drug Descriptors: *antidiabetic agent: AE, adverse drug reaction *antidiabetic agent: CB, drug combination *antidiabetic agent: DT, drug therapy *insulin: CB, drug combination *insulin: DT, drug therapy

sulfonylurea derivative: CB, drug combination

sulfonylurea derivative: DT, drug therapy hemoglobin Alc: EC, endogenous compound

```
glimepiride: CB, drug combination
     glimepiride: DT, drug therapy
     biguanide: DT, drug therapy
     thiazole derivative: AE, adverse drug reaction
       thiazole derivative: CB, drug combination
     thiazole derivative: DT, drug therapy
     thiazole derivative: PO, oral drug administration
     meglitinide: AE, adverse drug reaction
       meglitinide: CB, drug combination
     meglitinide: DT, drug therapy
     meglitinide: PK, pharmacokinetics
     alpha glucosidase inhibitor: AE, adverse drug reaction
     alpha glucosidase inhibitor: DT, drug therapy
     alpha glucosidase inhibitor: PK, pharmacokinetics
       statin: DT, drug therapy
     dipeptidyl carboxypeptidase inhibitor: DT, drug therapy
     ramipril: DT, drug therapy
       metformin: AE, adverse drug reaction
       metformin: CB, drug combination
       metformin: DT, drug therapy
       metformin: PK, pharmacokinetics
       metformin: PO, oral drug administration
     acarbose: AE, adverse drug reaction
       acarbose: CB, drug combination
     acarbose: DT, drug therapy
     acarbose: PK, pharmacokinetics
     pioglitazone: AE, adverse drug reaction
       pioglitazone: CB, drug combination
     pioglitazone: DT, drug therapy
     pioglitazone: PO, oral drug administration
     rosiglitazone: AE, adverse drug reaction
       rosiglitazone: CB, drug combination
     rosiglitazone: DT, drug therapy
     rosiglitazone: PO, oral drug administration
     glibenclamide: DT, drug therapy
     glipizide: DT, drug therapy
     troglitazone: AE, adverse drug reaction
     troglitazone: DT, drug therapy
     troglitazone: PO, oral drug administration
     repaglinide: AE, adverse drug reaction
     repaglinide: AD, drug administration
       repaglinide: CB, drug combination
     repaglinide: PK, pharmacokinetics
     miglitol: DT, drug therapy
     (insulin) 9004-10-8; (hemoglobin Alc) 62572-11-6; (glimepiride)
     93479-97-1; (biguanide) 56-03-1; (meglitinide) 54870-28-9; (ramipril)
     87333-19-5; (metformin) 1115-70-4, 657-24-9; (acarbose)
     56180-94-0; (pioglitazone) 105355-27-9, 111025-46-8; (rosiglitazone)
     122320-73-4, 155141-29-0; (glibenclamide) 10238-21-8; (glipizide)
     29094-61-9; (troglitazone) 97322-87-7; (repaglinide) 135062-02-1;
     (miglitol) 72432-03-2
L62 ANSWER 33 OF 41
                      EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights
     reserved on STN
ACCESSION NUMBER:
                    2001017511 EMBASE
                                          Full-text
                    Glitazones and the potential improvement of lipid profiles
TITLE:
                    in diabetes patients at high risk for cardiovascular
                    disease.
AUTHOR:
                    Nass C.M.; Blumenthal R.S.
CORPORATE SOURCE:
                    Dr. R.S. Blumenthal, Ciccarone Prev. Cardiology Center,
```

RN

Johns Hopkins Hospital, 600 Noerth Wolfe Street, Baltimore,

MD 21205, United States. rblument@jhmi.edu

SOURCE:

American Journal of Managed Care, (2000) Vol. 6, No. 24

SUPPL., pp. S1247-S1256. .

Refs: 66

ISSN: 1088-0224 CODEN: AJMCFY

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

037 Drug Literature Index

003 Endocrinology

018 Cardiovascular Diseases and Cardiovascular Surgery

029 Clinical Biochemistry

030 Pharmacology

036 Health Policy, Economics and Management

038 Adverse Reactions Titles

LANGUAGE:

English English

SUMMARY LANGUAGE: ENTRY DATE:

Entered STN: 25 Jan 2001

Last Updated on STN: 25 Jan 2001

AB Most deaths and hospitalizations in patients with diabetes are related to atherosclerotic vascular disease. An asymptomatic patient with type 2 diabetes has a cardiovascular risk comparable to that of a patient without diabetes who has a history of a myocardial infarction. The American Heart Association classifies diabetes as a coronary heart disease risk equivalent. Thus, it is important in patients with diabetes to aim for systolic blood pressures less than 130 mm Hg, using an angiotensin-converting enzyme inhibitor-based regimen. The target hemoglobin A(1C) (HbA(1C)) for those patients is < 7%. New oral insulin-sensitizing medications, known as thiazolidinediones or glitazones, are useful to improve glycemic control. Most patients with diabetes require 2 or more oral agents to achieve optimal glucose control. Glitazones generally lower HbA(1C) by 1% to 2%. They also raise high-density lipoprotein cholesterol levels and lower triglycerides. Thus, they may potentially improve low-density lipoprotein (LDL) particle sizes by converting small, dense LDL particles into larger, less atherogenic ones. Current data concerning the lipid effects of pioglitazone and rosiglitazone are reviewed in this article.

CTMedical Descriptors:

*non insulin dependent diabetes mellitus: DT, drug therapy

*non insulin dependent diabetes mellitus: DM, disease management

*non insulin dependent diabetes mellitus: ET, etiology

*cardiovascular risk

human

case report

clinical trial

adult

female

high risk patient

drug effect

drug cost

hyperglycemia

risk assessment

glucose metabolism

insulin blood level

glucose blood level

hypoglycemia: SI, side effect

dose response

liver injury: SI, side effect

anemia: SI, side effect

weight gain

ovulation induction

```
dyslipidemia: DT, drug therapy
 hypertension: DT, drug therapy
 article
 priority journal
 Drug Descriptors:
 *pioglitazone: PD, pharmacology
 *pioglitazone: DT, drug therapy
 *pioglitazone: PE, pharmacoeconomics
 *pioglitazone: IT, drug interaction
 *pioglitazone: CM, drug comparison
 *pioglitazone: AE, adverse drug reaction
 *pioglitazone: CT, clinical trial
 *pioglitazone: DO, drug dose
 *rosiglitazone: PD, pharmacology
 *rosiglitazone: DT, drug therapy
 *rosiglitazone: PE, pharmacoeconomics
 *rosiglitazone: IT, drug interaction
 *rosiglitazone: CM, drug comparison
 *rosiglitazone: AE, adverse drug reaction
 *rosiglitazone: CT, clinical trial
   *rosiglitazone: CB, drug combination
*rosiglitazone: DO, drug dose
 lipid: EC, endogenous compound
 hemoglobin Alc: EC, endogenous compound
 glucose: EC, endogenous compound
high density lipoprotein cholesterol: EC, endogenous compound
triacylglycerol: EC, endogenous compound
 low density lipoprotein: EC, endogenous compound
   metformin: DT, drug therapy
   metformin: PD, pharmacology.
   metformin: PE, pharmacoeconomics
   metformin: CM, drug comparison
 glibenclamide: DT, drug therapy.
 glibenclamide: PE, pharmacoeconomics
 glibenclamide: PD, pharmacology
 glibenclamide: CM, drug comparison
 simvastatin: DT, drug therapy
 ramipril: DT, drug therapy
 atenolol: DT, drug therapy
 acetylsalicylic acid: DT, drug therapy
 peroxisome proliferator activated receptor: EC, endogenous compound
 insulin: EC, endogenous compound
 troglitazone: CT, clinical trial
 troglitazone: DT, drug therapy
 troglitazone: PD, pharmacology
 troglitazone: DO, drug dose
 sulfonylurea: DT, drug therapy
   sulfonylurea: CB, drug combination
 sulfonylurea: DO, drug dose
 sulfonylurea: CT, clinical trial
   statin: DT, drug therapy
 dipeptidyl carboxypeptidase inhibitor: DT, drug therapy
 (pioglitazone) 105355-27-9, 111025-46-8; (rosiglitazone) 122320-73-4,
 155141-29-0; (lipid) 66455-18-3; (hemoglobin Alc) 62572-11-6; (glucose)
 50-99-7, 84778-64-3; (metformin) 1115-70-4, 657-24-9;
 (glibenclamide) 10238-21-8; (simvastatin) 79902-63-9; (ramipril)
 87333-19-5; (atenolol) 29122-68-7; (acetylsalicylic acid) 493-53-8,
 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1; (insulin) 9004-10-8;
 (troglitazone) 97322-87-7
```

RN

L62 ANSWER 34 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights

reserved on STN

SOURCE:

ACCESSION NUMBER: 2000020275 EMBASE Full-text

TITLE: Efficacy and safety of cerivastatin for type

2 diabetes and hypercholesterolaemia.

AUTHOR: Rubinstein A.; Maritz F.J.; Soule S.G.; Markel A.;

Chajek-Shaul T.; Maislos M.; Tal S.; Stolero D.

CORPORATE SOURCE: Prof. A. Rubinstein, Metabolic Unit, Tel-Aviv Sourasky

Medical Centre, 6 Weisman Street, Tel-Aviv 64239, Israel Journal of Cardiovascular Risk, (1999) Vol. 6, No. 6, pp.

399-403. . Refs: 19

ISSN: 1350-6277 CODEN: JCRIEO

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 003 Endocrinology

018 Cardiovascular Diseases and Cardiovascular Surgery

030 Pharmacology

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20 Jan 2000.

Last Updated on STN: 20 Jan 2000

Background: The prevalence of coronary heart disease (CHD) is markedly increased in diabetic patients compared with nondiabetic individuals, and its prognosis is less good. Serum total and low-density lipoprotein (LDL) cholesterol concentrations have been shown to be powerful predictors of CHD morbidity and mortality in patients with type 2 diabetes. The available data suggest that the target cholesterol concentration in patients with diabetes should be similar to that in non-diabetic individuals with a previous myocardial infarction. This led us to investigate the efficacy, tolerability and safety of a new, highly potent statin, cerivastatin, in diabetic hyperlipidaemia. Methods: This was a multinational, multicentre, doubleblind, randomized study in type 2 diabetic patients with hypercholesterolaemia (LDL cholesterol > 3.35 mmol/l; triglycerides <4.56 mmol/l). Eligible patients were randomly assigned to groups to receive cerivastatin 0.1 mg or 0.3 mg or placebo in a ratio of 2:2:1 for 12 weeks. They were monitored in the clinic every 4 weeks. Results: Of the 453 patients screened, 265 were allocated to the study groups. Fifty-one received placebo and 107 patients were assigned to each active treatment group (0.1 mg and 0.3 mg cerivastatin). At the close of the study, total cholesterol had decreased by 13.7% and 23.5%, LDL cholesterol decreased by 20.2% and 33.8%, and triglyceride concentrations decreased by 3.9% and 12.3% in the cerivastatin 0.1 mg and 0.3 mg groups, respectively. There was no significant difference between the groups in haemoglobin A(1c), adverse events or increases in liver and muscle enzymes during the study period. Conclusions: Hypercholesterolaemic patients with type 2 diabetes had a significant reduction in LDL cholesterol and total cholesterol concentrations after cerivastatin treatment once daily. The dose of 0.3 mg cerivastatin is effective in diabetic hypercholesterolaemia, with co-reduction of triglyceride concentrations. The effect of cerivastatin on coronary morbidity and mortality is currently being investigated in clinical trials.

CT Medical Descriptors:

*hypercholesterolemia: CO, complication *hypercholesterolemia: DT, drug therapy *non insulin dependent diabetes mellitus

drug efficacy drug safety dose response

```
drug tolerability
drug potency
cholesterol blood level
triacylglycerol blood level
protein blood level
enzyme blood level
flu like syndrome: ET, etiology
flu like syndrome: SI, side effect
upper respiratory tract infection: CO, complication
human
male
female
major clinical study
clinical trial
randomized controlled trial
double blind procedure
multicenter study
controlled study
aged
adult
article
priority journal
Drug Descriptors:
*cerivastatin: AE, adverse drug reaction
*cerivastatin: CT, clinical trial
  *cerivastatin: CB, drug combination
*cerivastatin: DO, drug dose
*cerivastatin: IT, drug interaction
*cerivastatin: DT, drug therapy
*cerivastatin: PD, pharmacology
*cerivastatin: PO, oral drug administration
*hydroxymethylglutaryl coenzyme A reductase inhibitor: AE, adverse drug
reaction
*hydroxymethylglutaryl coenzyme A reductase inhibitor: CT, clinical trial
*hydroxymethylglutaryl coenzyme A reductase inhibitor: CB, drug
*hydroxymethylglutaryl coenzyme A reductase inhibitor: DO, drug dose
*hydroxymethylglutaryl coenzyme A reductase inhibitor: IT, drug
interaction
*hydroxymethylglutaryl coenzyme A reductase inhibitor: DT, drug therapy
*hydroxymethylglutaryl coenzyme A reductase inhibitor: PD, pharmacology
*hydroxymethylglutaryl coenzyme A reductase inhibitor: PO, oral drug
administration
low density lipoprotein cholesterol: 'EC, endogenous compound
triacylglycerol: EC, endogenous compound
hemoglobin Alc: EC, endogenous compound
liver enzyme: EC, endogenous compound
muscle enzyme: EC, endogenous compound
  nitrate: CB, drug combination
nitrate: IT, drug interaction
  acetylsalicylic acid: CB, drug combination
acetylsalicylic acid: IT, drug interaction
  beta adrenergic receptor blocking agent: CB, drug combination
beta adrenergic receptor blocking agent: IT, drug interaction
  calcium channel blocking agent: CB, drug combination
calcium channel blocking agent: IT, drug interaction
  dipeptidyl carboxypeptidase inhibitor: CB, drug combination
dipeptidyl carboxypeptidase inhibitor: IT, drug interaction
  metformin: CB, drug combination
  metformin: IT, drug interaction
```

glibenclamide: CB, drug combination glibenclamide: IT, drug interaction acarbose: CB, drug combination acarbose: IT, drug interaction RN (cerivastatin) 143201-11-0; (hemoglobin Alc) 62572-11-6; (nitrate) 14797-55-8; (acetylsalicylic acid) 493-53-8, 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1; (metformin) 1115-70-4, 657-24-9; (glibenclamide) 10238-21-8; (acarbose) 56180-94-0 CN Aspirin EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights L62 ANSWER 35 OF 41 reserved on STN ACCESSION NUMBER: 1999346115 EMBASE Full-text TITLE: UKPDS: Implications for management of type 2 diabetes in the Millennium. The abiding legacy of Robert Turner. **AUTHOR:** Campbell I. Practical Diabetes International, (1999) Vol. 16, No. 6, SOURCE: pp. 161-162. . Refs: 0 ISSN: 1357-8170 CODEN: PDINFY COUNTRY: United Kingdom DOCUMENT TYPE: Journal; Editorial FILE SEGMENT: 003 Endocrinology: 006 Internal Medicine .017 Public Health, Social Medicine and Epidemiology 018 Cardiovascular Diseases and Cardiovascular Surgery 037 Drug Literature Index LANGUAGE: English ENTRY DATE: Entered STN: 21 Oct 1999 Last Updated on STN: 21 Oct 1999 CT Medical Descriptors: *non insulin dependent diabetes mellitus: DT, drug therapy *non insulin dependent diabetes mellitus: DM, disease management *blood glucose monitoring *blood pressure regulation United Kingdom hypertension: DT, drug therapy hypertension: PC, prevention cardiovascular disease: DT, drug therapy human editorial Drug Descriptors: glucose: EC, endogenous compound sulfonylurea: CB, drug combination sulfonylurea: DT, drug therapy insulin: DT, drug therapy metformin: CB, drug combination metformin: DT, drug therapy captopril: DT, drug therapy atenolol: DT, drug therapy repaglinide: CB, drug combination repaglinide: DT, drug therapy rosiglitazone: CB, drug combination rosiglitazone: DT, drug therapy statin: DT, drug therapy acetylsalicylic acid: DT, drug therapy RN (glucose) 50-99-7, 84778-64-3; (insulin) 9004-10-8; (metformin) 1115-70-4, 657-24-9; (captopril) 62571-86-2; (atenolol) 29122-68-7; (repaglinide) 135062-02-1; (rosiglitazone) 122320-73-4; (acetylsalicylic

acid) 493-53-8, 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1

L62 ANSWER 36 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights

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ACCESSION NUMBER: 1998020371 EMBASE Full-text

TITLE: Management of dyslipidemia in adults with diabetes.

AUTHOR: Haffner S.M.

Dr. S.M. Haffner, Department of Medicine, Univ. of Texas CORPORATE SOURCE:

Health Science Center, 7703 Floyd Curl Drive, San Antonio,

TX 78284-7873, United States

Diabetes Care, (1998) Vol. 21, No. 1, pp. 160-178. . SOURCE:

Refs: 235

ISSN: 0149-5992 CODEN: DICAD2

United States COUNTRY:

Journal; General Review DOCUMENT TYPE: FILE SEGMENT: Endocrinology 003 006 Internal Medicine

> 018 Cardiovascular Diseases and Cardiovascular Surgery

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 5 Feb 1998

Last Updated on STN: 5 Feb 1998

AB Subjects with diabetes have a greatly increased risk of CHD, which is only partially related to their elevated glucose. Other factors such as insulin resistance and dyslipidemia are likely to be important. The type of dyslipidemia that is most characteristic of type 2 diabetic subjects is elevated triglycerides and decreased HDL cholesterol levels, although all lipoproteins have compositional abnormalities. Surprisingly few good prospective studies of lipoprotein levels in relation to CHD have been done in diabetic subjects. Available studies suggest that low HDL cholesterol may be the most important risk factor for CHD in observational studies. In studies in which total cholesterol and triglyceride were done, cholesterol and triglycerides were risk factors for CHD, although triglycerides were often a stronger predictor. However, the strength of triglyceride as a risk factor for CHD may depend partially on its association with other variables (e.g., hypertension, plasminogen activator inhibitor 1 [PAI-1], etc.). In clinical trials in diabetic subjects, LDL reduction with statins has led to significant reductions in CHD incidence. In addition, overall mortality was reduced with statin therapy, although the results were not statistically significant. Gemfibrozil has led to reductions in CHD incidence in diabetic subjects, although the results were not statistically significant perhaps because of low sample size. Regarding lipoproteins and CHD risk in diabetic patients, the very positive results of statin trials point to LDL cholesterol being more important than previously realized. Apparently, having a borderline high LDL cholesterol (between 130 and 160 mg/dl) in a diabetic patient is equivalent to a much higher LDL cholesterol in terms of CHD risk for a nondiabetic subject. Therefore, the primary target of therapy in diabetic patients is lowering LDL cholesterol (or possibly, non-HDL cholesterol). Statins are the preferred pharmacological agent in this situation. Once LDL cholesterol levels have been lowered, attention can be given to treatment of residual hypertriglyceridemia and low HDL. The goal here is weight reduction and increased exercise. However, for selected patients, combining a fibric acid (or low-dose nicotinic acid) with a statin also can be considered. Reduction of LDL levels should take priority over reduction of triglycerides in combined hyperlipidemia because of the proven safety of the statin class of drugs as well as greater reduction in CHD incidence.

CTMedical Descriptors:

*dyslipidemia: DM, disease management

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*dyslipidemia: DT, drug therapy
*dyslipidemia: EP, epidemiology
*dyslipidemia: TH, therapy
*ischemic heart disease: CO, complication
*ischemic heart disease: EP, epidemiology
*non insulin dependent diabetes mellitus: DT, drug therapy
*non insulin dependent diabetes mellitus: EP, epidemiology
*non insulin dependent diabetes mellitus: TH, therapy
insulin dependent diabetes mellitus: DT, drug therapy
insulin dependent diabetes mellitus: EP, epidemiology
  hyperglycemia
glucose homeostasis
atherosclerosis
insulin resistance
diet therapy
kinesiotherapy
cost effectiveness analysis
gastrointestinal symptom: SI, side effect
liver toxicity: SI, side effect
rhabdomyolysis: SI, side effect
drug mixture
human
male
female
major clinical study
clinical trial
randomized controlled trial
double blind procedure
multicenter study
controlled study
review
Drug Descriptors:
*lipid: EC, endogenous compound
*lipoprotein: EC, endogenous compound
*hydroxymethylglutaryl coenzyme a reductase inhibitor: CT, clinical trial
*hydroxymethylglutaryl coenzyme a reductase inhibitor: DO, drug dose
*hydroxymethylglutaryl coenzyme a reductase inhibitor: DT, drug therapy
*hydroxymethylglutaryl coenzyme a reductase inhibitor: PD, pharmacology
*antilipemic agent: CT, clinical trial
*antilipemic agent: DO, drug dose
                                              delight print
*antilipemic agent: DT, drug therapy
*antilipemic agent: PD, pharmacology
*bile acid: AE, adverse drug reaction
*bile acid: DT, drug therapy
*bile acid: PD, pharmacology
*nicotinic acid: AE, adverse drug reaction
*nicotinic acid: DT, drug therapy
*nicotinic acid: PD, pharmacology
tolbutamide: CT, clinical trial
tolbutamide: DT, drug therapy
insulin: CT, clinical trial
insulin: DT, drug therapy
  metformin: CT, clinical trial
  metformin: DT, drug therapy
chlorpropamide: CT, clinical trial
chlorpropamide: DT, drug therapy
glibenclamide: CT, clinical trial
glibenclamide: DT, drug therapy
acarbose: CT, clinical trial
acarbose: DT, drug therapy
```

```
simvastatin: CT, clinical trial
       simvastatin: CB, drug combination
     simvastatin: DO, drug dose
     simvastatin: DT, drug therapy
     simvastatin: PR, pharmaceutics
     simvastatin: PD, pharmacology
     sulfonylurea derivative: CT, clinical trial
     sulfonylurea derivative: DT, drug therapy
     gemfibrozil: AE, adverse drug reaction
       gemfibrozil: CB, drug combination
     gemfibrozil: DO, drug dose
     gemfibrozil: DT, drug therapy
     gemfibrozil: EC, endogenous compound
     gemfibrozil: PD, pharmacology
     resin: AE, adverse drug reaction
     resin: DO, drug dose
     resin: DT, drug therapy
     resin: EC, endogenous compound
     resin: PD, pharmacology
     pravastatin: CT, clinical trial
       pravastatin: CB, drug combination
     pravastatin: DO, drug dose
     pravastatin: DT, drug therapy
     pravastatin: EC, endogenous compound
     pravastatin: PD, pharmacology
     cholesterol: EC, endogenous compound
     mevinolin: CT, clinical trial
       mevinolin: CB, drug combination
     mevinolin: DO, drug dose
     mevinolin: DT, drug therapy
     mevinolin: PD, pharmacology
     fenofibrate: CT, clinical trial
     fenofibrate: DO, drug dose
     fenofibrate: DT, drug therapy
     fenofibrate: PD, pharmacology
       fibric acid derivative: CB, drug combination
     fibric acid derivative: DO, drug dose
     fibric acid derivative: DT, drug therapy
     fibric acid derivative: PD, pharmacology
     triacylglycerol
     low density lipoprotein
     high density lipoprotein
     lipoprotein a
     (lipid) 66455-18-3; (nicotinic acid) 54-86-4, 59-67-6; (tolbutamide)
     473-41-6, 64-77-7; (insulin) 9004-10-8; (metformin) 1115-70-4,
     657-24-9; (chlorpropamide) 94-20-2; (glibenclamide) 10238-21-8; (acarbose)
     56180-94-0; (simvastatin) 79902-63-9; (gemfibrozil) 25812-30-0;
     (pravastatin) 81131-74-0; (cholesterol) 57-88-5; (mevinolin) 75330-75-5;
     (fenofibrate) 49562-28-9
L62 ANSWER 37 OF 41 EMBASE COPYRIGHT (c) 2007 Elsevier B.V. All rights
     reserved on STN
                                          Full-text
ACCESSION NUMBER:
                    1998018054 EMBASE
TITLE:
                    Lipid disorders in diabetes.
AUTHOR:
                    Goldberg R.B.
CORPORATE SOURCE:
                    Dr. R.B. Goldberg, Diabetes Research Institute (R77), Univ.
                    of Miami School of Medicine, 1450 NW 10th Avenue, Miami, FL
                    33136, United States. rgoldbel@mednet.med.miami.edu
SOURCE:
                    Endocrinologist, (1997) Vol. 7, No. 6, pp. 436-442. .
```

RN

Refs: 14

ISSN: 1051-2144 CODEN: EDOCEB

COUNTRY:

United States

DOCUMENT TYPE:

Journal; General Review 003 Endocrinology

FILE SEGMENT:

003 Endocrinology 018 Cardiovascular Diseases and Cardiovascular Surgery

030 Pharmacology

037 Drug Literature Index

LANGUAGE:

English

SUMMARY LANGUAGE:

English

ENTRY DATE:

Entered STN: 22 Jan 1998

Last Updated on STN: 22 Jan 1998

AB An increased frequency of lipid disorders is believed to be responsible, in part, for the increased prevalence of cardiovascular disease associated with diabetes. Decreased insulin action, attributable to insulin deficiency or insulin resistance, is the primary cause. Increased triglyceride and decreased high density lipoprotein (HDL) levels often associated with small, dense, low density lipoprotein (LDL) (dyslipidemia) are found more commonly than in nondiabetic patients, and elevated LDL values occur with equal frequency in overweight, elderly diabetic, and nondiabetic individuals. addition, compositional abnormalities increase the atherogenicity of lipoproteins. These abnormalities are largely reversed by administration of high dosages of insulin in type 1 diabetic patients; in patients with type 2 diabetes, a dyslipidemic pattern frequently persists despite treatment with oral agents or insulin. Hypertriglyceridemia and low HDL are predictive of coronary heart disease (CHD) risk in diabetes, although hypertriglyceridemia loses its predictive power in patients with normal LDL levels or after correction for low HDL. Cut points for diagnosis and goals for treatment should be set lower for diabetic patients than for the general population. Weight reduction and increased physical activity are useful initial approaches to therapy. Recent evidence in diabetic patients with CHD that lowering LDL using statin drugs is associated with at least the same relative degree of benefit as in nondiabetic patients provides the rationale for aggressive LDL lowering in diabetic individuals, given their excess rate of CHD. Pharmacotherapy for hypertriglyceridemia is more controversial except in ... patients with severe abnormalities.

CT Medical Descriptors:

*dyslipidemia: DT, drug therapy

*dyslipidemia: TH, therapy

*insulin dependent diabetes mellitus: DT, drug therapy
*non insulin dependent diabetes mellitus: DT, drug therapy

weight reduction physical activity caloric restriction ischemic heart disease

hypertriglyceridemia: DT, drug therapy

hypertriglyceridemia: TH, therapy

human

clinical trial

oral drug administration

review

Drug Descriptors:

*lipid: EC, endogenous compound

*antilipemic agent: DT, drug therapy

*hydroxymethylglutaryl coenzyme a reductase inhibitor: CT, clinical trial

*hydroxymethylglutaryl coenzyme a reductase inhibitor: DT, drug therapy

*insulin: DT, drug therapy

*oral antidiabetic agent: DT, drug therapy

*lipoprotein a: EC, endogenous compound

cholesterol: EC, endogenous compound

triacylglycerol: EC, endogenous compound

```
high density lipoprotein cholesterol: EC, endogenous compound
     low density lipoprotein cholesterol: EC, endogenous compound
     very low density lipoprotein: EC, endogenous compound
     simvastatin: CT, clinical trial
     simvastatin: DT, drug therapy
     pravastatin: CT, clinical trial
     pravastatin: DT, drug therapy
     gemfibrozil: CT, clinical trial
     gemfibrozil: DT, drug therapy
     sulfonylurea derivative: DT, drug therapy
       metformin: DT, drug therapy
     troglitazone: DT, drug therapy
     fluindostatin: DT, drug therapy
     mevinolin: DT, drug therapy
     atorvastatin: DT, drug therapy
     nicotinic acid: DT, drug therapy
     (lipid) 66455-18-3; (insulin) 9004-10-8; (cholesterol) 57-88-5;
RN
     (simvastatin) 79902-63-9; (pravastatin) 81131-74-0; (gemfibrozil)
     25812-30-0; (metformin) 1115-70-4, 657-24-9; (troglitazone)
     97322-87-7; (fluindostatin) 93957-54-1; (mevinolin) 75330-75-5;
     (atorvastatin) 134523-00-5, 134523-03-8; (nicotinic acid) 54-86-4, 59-67-6
L62 ANSWER 38 OF 41 DRUGU COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 2002-14642 DRUGU
                                      Т
                                           Full-text
TITLE:
                  Nephropathy in patients with type 2
                  diabetes.
AUTHOR:
                  Remuzzi G; Schieppati A; Ruggenenti P
CORPORATE SOURCE: Inst.Res.Pharmacol.Mario-Negri
LOCATION:
                  Bergamo, It.
SOURCE:
                  N.Engl.J.Med. (346, No. 15, 1145-51, 2002) 1 Fig. 3 Tab. 43
      Ref.
                  CODEN: NEJMAG
                                      ISSN:
                                             0028-4793
AVAIL. OF DOC.:
                  Mario Negri Institute, Via Gavazzeni 11, 24100 Bergamo,
                  Italy. (A.S.).
LANGUAGE:
                  English
DOCUMENT TYPE:
                  Journal
FIELD AVAIL.:
                  AB; LA; CT
FILE SEGMENT:
                  Literature
AB
       Nephropathy in patients with type 2 diabetes is reviewed. Strategies and
       evidence supporting the use of microalbuminuria screening, glycemic control
       and B.P. control in managing diabetic nephropathy are discussed. The
       potential roles of metformin, ACE inhibitors (captopril, enalapril,
       lisinopril, ramipril and trandolapril), angiotensin II-receptor antagonists
       (losartan, valsartan and irbesartan), antihypertensive agents (nifedipine,
       amlodipine, diltiazem, verapamil, lisinopril and candesartan) and beta-
      blockers (carvedilol) are evaluated. The importance of B.P. goals, the
       treatment of dyslipidemia and protein restriction are considered. Multidrug
       treatment including diuretics (chlorthalidone, hydrochlorthalidone,
       furosemide and spironolactone) is evaluated. Clinical-practice guidelines
       are reviewed and recommendations proposed.
AN
      2002-14642 DRUGU
                              Full-text
                          Т
      T Therapeutics
      39 Kidney
      58 Vasoactive
      69 Reviews
CT
         DIABETES *TR; NEPHROPATHY *TR; CARBOHYDRATE-METAB.DISORDER *TR;
         PANCREOPATHY *TR; REVIEW *FT; CASES *FT; IN-VIVO *FT; PROPHYLAXIS *FT;
         CONCOMITANT-DISEASE *FT; NEPHROTROPIC *FT; HYPOTENSIVE *FT
    [01] MAIN-TOPIC *FT; HYPOTENSIVES *FT; TR *FT
```

[02] METFORMIN *TR; CAPTOPRIL *TR; ENALAPRIL *TR; LISINOPRIL *TR;

RAMIPRIL *TR; TRANDOLAPRIL *TR; LOSARTAN *TR; VALSARTAN *TR; IRBESARTAN *TR; NIFEDIPINE *TR; AMLODIPINE *TR; DILTIAZEM *TR; VERAPAMIL *TR; CARVEDILOL *TR; CANDESARTAN *TR; CHLORTALIDONE *TR; HYDROCHLORTHALIDONE *TR; FUROSEMIDE *TR; SPIRONOLACTONE *TR; TR *FT

L62 ANSWER 39 OF 41 DRUGU COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2001-45400 DRUGU T Full-text

TITLE: Pharmacological treatment of obesity.

AUTHOR: Thissen J P

CORPORATE SOURCE: Univ.Louvain-Cath.

LOCATION: Louvain, Belg.

SOURCE: J.Pharm.Belg. (56, No. 2, 45-50, 2001) 4 Ref.

CODEN: JPBEAJ ISSN: 0047-2166

AVAIL. OF DOC .: Endocrinologie et Nutrition, Cliniques Universitaires St-Luc

Universite Catholique de Louvain, Belgium.

LANGUAGE: French
DOCUMENT TYPE: Journal
FIELD AVAIL: AB; LA; CT
FILE SEGMENT: Literature

AB Pharmacological treatment of obesity is reviewed. Obesity may be complicated by syndrome X, symptoms of which include insulin resistance, arterial hypertension and abnormal triglyceride and cholesterol levels. Treatment involves weight loss and control of symptoms of syndrome X. Orlistat (OT) and sibutramine (SB) may be used to treat obesity; metformine, sulphonyl ureas, alpha-glucosidase inhibitors, insulin and thiazolidinediones may be used to treat type II diabetes; CEI, beta-blockers, calcium channel blockers and diuretics may be used in the treatment of arterial hypertension, and fibrates and statins may be used to treat abnormal triglyceride and cholesterol levels. (conference paper: Conference on Pathology and Nutrition, Louvain, Belgium, 2000).

AN 2001-45400 DRUGU T Full-text

T Therapeutics

58 Vasoactive

69 Reviews

CT OBESITY *TR; BODY-WEIGHT *TR; CASES *FT; IN-VIVO *FT; REVIEW *FT; ANORECTIC *FT

[01] MAIN-TOPIC *FT; ANORECTICS *FT; TR *FT

[02] ORLISTAT *TR; SIBUTRAMINE *TR; METFORMIN *TR; ACARBOSE *TR; TROGLITAZONE *TR; CAPTOPRIL *TR; TR *FT

L62 ANSWER 40 OF 41 DRUGU COPYRIGHT 2007 THE THOMSON CORP on STN

ACCESSION NUMBER: 2000-36337 DRUGU T B E Full-text

TITLE: Are postprandial triglyceride and insulin abnormalities

neglected cardiovascular risk factors in type

2 diabetes

AUTHOR: Golay A
CORPORATE SOURCE: Univ.Geneva
LOCATION: Geneva, Switz.

SOURCE: Eur.J.Clin.Invest. (30, Suppl. 2, 12-18, 2000) 3 Fig. 1 Tab.

54 Ref.

CODEN: EJCIB8 ISSN: 0014-2972

AVAIL. OF DOC.: Division d'Enseignement, Therapeutic pour Maladies Chroniques

(3HL), Geneva University Hospital, 24, rue Micheli du Crest, 1211 Geneva 14, Switzerland. (e- mail: alain.golay@hcuge.ch).

LANGUAGE: English
DOCUMENT TYPE: Journal
FIELD AVAIL: AB; LA; CT
FILE SEGMENT: Literature

AB Postprandial triglyceride and insulin abnormalities as neglected cardiovascular risk factors in type 2 diabetes are reviewed. Postprandial

metabolism in nondiabetic and type 2 diabetic patients are mentioned. Insulin resistance and lipid profiles are cited. Management of postprandial hyperinsulinemia (miglitol, acarbose, metformin and sulphonylureas) and hypertriglyceridemia (ciprofibrate, fenofibrate and statins) is discussed. Lifestyle modifications and appropriate choice of glucose- and lipid-lowering drugs are targeted to treat the pattern of lipid abnormalities associated with type 2 diabetes. (conference paper: Satellite Symposium held at the 35th Annual Meeting of the European Association for the Study of Diabetes, Brussels, Belgium, 1999).

AN 2000-36337 DRUGU TBE Full-text

T Therapeutics

B Biochemistry

E Endocrinology

12 Antidiabetics

- 22 Endogenous Compounds
- 58 Vasoactive
- 69 Reviews

CT DIABETES *TR; HYPERINSULINISM *TR; HYPERTRIGLYCERIDEMIA *TR; CARDIOPATHY *TR; VASCULAR-DISEASE *TR; CARBOHYDRATE-METAB.DISORDER *TR; PANCREOPATHY *TR; CARBOHYDRATE-METAB.DISORDER *TR; PANCREOPATHY *TR; LIPID-METAB.DISORDER *TR; IN-VIVO *FT; CASES *FT; REVIEW *FT; POSTPRANDIAL *FT; TRIGLYCERIDE *FT; LIPID-METAB. *FT

[01] MIGLITOL *TR; ACARBOSE *TR; METFORMIN *TR; CIPROFIBRATE *TR; FENOFIBRATE *TR; MAIN-TOPIC *FT; TR *FT

ANSWER 41 OF 41 DRUGU COPYRIGHT 2007 THE THOMSON CORP on STN L62 ·

ACCESSION NUMBER: 2001-02646 DRUGU TSE Full-text

Pioglitazone in the treatment of type 2

diabetes mellitus: U.S. clinical experience.

AUTHOR:

Buse J B

LOCATION:

Chapel Hill, N.C., USA

SOURCE:

Exp.Clin.Endocrinol.Diabetes (108, Suppl. 2, S250-S255, 2000)

1 Fig. 3 Tab. 22 Ref.

CODEN: ECEDF ISSN: 0947-7349

University of North Carolina School of Medicine, Diabetes AVAIL. OF DOC.:

Care Center, 5316 Highgate Drive, Durham, NC 27713, U.S.A.

LANGUAGE: English DOCUMENT TYPE: Journal FIELD AVAIL.: AB; LA; CT

FILE SEGMENT: Literature

Pioglitazone was employed as monotherapy and in a variety of combination therapy regimens in adult patients with type 2 diabetes in a meta-analysis of 6 randomized, placebo-controlled, multicenter, parallel-group, double-blind, pivotal trials in the United States. Pioglitazone reduced glucose AUC in a dose-related fashion following a p.o. glucose challenge. Pioglitazone reduced serum triglycerides and raised HDL-cholesterol levels without causing any consistent mean change from placebo in total or LDL-cholesterol. Edema, weight gain, and decreased Hb/hematocrit were seen more commonly with pioglitazone compared with placebo. Data show that the preponderance of combination therapy in U.S. clinical practice may reveal a tendency among some physicians to reserve pioglitazone for patients who have failed therapy with more familiar agents such as sulphonylureas or metformin.

AN 2001-02646 DRUGU T S E Full-text

- T Therapeutics
 - S Adverse Effects
 - E Endocrinology
 - 12 Antidiabetics
 - 35 Adverse Reactions
 - 64 Clinical Trials
 - 69 Reviews

- CT DIABETES *TR; CARBOHYDRATE-METAB.DISORDER *TR; PANCREOPATHY *TR; CASES *FT; IN-VIVO *FT; REVIEW *FT; CLIN.TRIAL *FT
 - [01] PIOGLITAZONE *TR; PIOGLITAZONE *AE; AD-4833 *RN; MAIN-TOPIC *FT; ANTIDIABETIC *FT; ANTIDIABETICS *FT; ANTIARTERIOSCLEROTICS *FT; TR *FT; AE *FT
 - [02] ROSIGLITAZONE *AE; TROGLITAZONE *AE; AE *FT

=> d his nofile

(FILE 'HOME' ENTERED AT 09:24:40 ON 19 JUL 2007) FILE 'HCAPLUS' ENTERED AT 09:24:48 ON 19 JUL 2007 L11 SEA ABB=ON PLU=ON US20060240095/PN SEL RN FILE 'REGISTRY' ENTERED AT 09:26:12 ON 19 JUL 2007 9 SEA ABB=ON PLU=ON (657-24-9/BI OR 134523-00-5/BI OR 147511-69 L2 -1/BI OR 287714-41-4/BI OR 75330-75-5/BI OR 79902-63-9/BI OR 81093-37-0/BI OR 9028-35-7/BI OR 93957-54-1/BI) L3 1 SEA ABB=ON PLU=ON 9028-35-7/RN FILE 'HCAPLUS' ENTERED AT 09:28:02 ON 19 JUL 2007 9118 SEA ABB=ON PLU=ON L3 L4FILE 'REGISTRY' ENTERED AT 09:28:53 ON 19 JUL 2007 2 SEA ABB=ON PLU=ON STATIN/CN L5 FILE 'HCAPLUS' ENTERED AT 09:30:24 ON 19 JUL 2007 7933 SEA ABB=ON PLU=ON L5 L6 FILE 'HCAPLUS' ENTERED AT 09:30:57 ON 19 JUL 2007 L7 2862 SEA ABB=ON PLU=ON METFORMIN/OBI L8 2633 SEA ABB=ON PLU=ON 657-24-9/RN L9 48 SEA ABB=ON PLU=ON 657-24-9D/RN 3100 SEA ABB=ON PLU=ON (L7 OR L8 OR L9) 191 SEA ABB=ON PLU=ON L10 AND L5 L10 · L11 L12 4745 SEA ABB=ON PLU=ON STATIN/OBI L13 11420 SEA ABB=ON PLU=ON L12 OR L5 218 SEA ABB=ON PLU=ON L13 AND L10 FILE 'ZCAPLUS' ENTERED AT 09:34:47 ON 19 JUL 2007 L15 QUE ABB=ON PLU=ON STATIN L16 QUE ABB=ON PLU=ON METFORMIN QUE ABB=ON PLU=ON HYPERGLYCEMI? OR DIABETE# METILLUS L17 L18 QUE ABB=ON PLU=ON HYPERGLYCEMI? (2A) AGENT# L19 QUE ABB=ON PLU=ON DIABET? (2A) (TYPE 2 OR TYPE II OR TYPE TWO) L20 QUE ABB=ON PLU=ON JUNIEN J?/AU L21 QUE ABB=ON PLU=ON JUNIEN JEAN LOUIS/AU L22 QUE ABB=ON PLU=ON EDGAR A?/AU L23 QUE ABB=ON PLU=ON AY<2003 OR PY<2003 OR PRY<2003 QUE ABB=ON PLU=ON AY<2003 OR PY<2003 OR PRY<2003 OR MY<2003 L24 OR REVIEW/DT FILE 'HCAPLUS' ENTERED AT 09:37:40 ON 19 JUL 2007 L25 53 SEA ABB=ON PLU=ON (L11 OR L14) AND ((L17 OR L18 OR L19)) L26 22 SEA ABB=ON PLU=ON L25 AND L24 L27 O SEA ABB=ON PLU=ON L26 AND L1 L28 1 SEA ABB=ON PLU=ON L25 AND L1 L29 5 SEA ABB=ON PLU=ON L26 (P) (COMBINATION#/OBI OR DOSAGE#/OBI

FILE 'STNGUIDE' ENTERED AT 09:43:09 ON 19 JUL 2007

OR DOSING/OBI OR ADMINISTER?/OBI)

FILE 'HCAPLUS' ENTERED AT 09:44:39 ON 19 JUL 2007

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            187 SEA ABB=ON PLU=ON JUNIEN J?/AU
1.30
L31
            95 SEA ABB=ON PLU=ON JUNIEN JEAN LOUIS/AU
L32
            295 SEA ABB=ON PLU=ON EDGAR A?/AU
             6 SEA ABB=ON PLU=ON L32 AND ((L30 OR L31))
L33
              5 SEA ABB=ON PLU=ON L33 NOT L1
L34
                 SAVE TEMP L34 KUD523HCAPIN/A
     FILE 'STNGUIDE' ENTERED AT 09:47:18 ON 19 JUL 2007
     FILE 'WPIX' ENTERED AT 09:51:45 ON 19 JUL 2007
             45 SEA ABB=ON PLU=ON L15 AND L16
L35
L36
           6049 SEA ABB=ON PLU=ON (L17 OR L18 OR L19)
L37
             22 SEA ABB=ON PLU=ON L35 AND L36
L38
             1 SEA ABB=ON PLU=ON L37 AND L1
L39
             1 SEA ABB=ON PLU=ON L37 AND L33
             9 SEA ABB=ON PLU=ON L37 AND L23
L40
               SAVE TEMP L40 KUD523WPIX/A
L41
            35 SEA ABB=ON PLU=ON (L30 OR L31)
            105 SEA ABB=ON PLU=ON EDGAR A?/AU
L42
L43
             7 SEA ABB=ON PLU=ON L41 AND L42
L44
             7 SEA ABB=ON PLU=ON L43 NOT L40
              6 SEA ABB=ON PLU=ON L43 NOT L1
L45
                SAVE TEMP L45 KUD523WPIXIN/A
     FILE 'MEDLINE, BIOSIS, EMBASE, DRUGU, BIOTECHNO, PASCAL, CONFSCI' ENTERED
     AT 09:56:47 ON 19 JUL 2007
L46
           443 SEA ABB=ON PLU=ON L35
L47
         238391 SEA ABB=ON PLU=ON L36
            265 SEA ABB=ON PLU=ON L46 AND L47
L48
L49
             74 SEA ABB=ON PLU=ON L48 AND L24
L50
             29 SEA ABB=ON PLU=ON L49 AND (COMBINATION# OR DOSAGE# OR DOSING
               OR ADMINISTER?)
L51
             29 SEA ABB=ON PLU=ON L49 (P) (COMBINATION# OR DOSAGE# OR DOSING
               OR ADMINISTER?)
              1 SEA ABB=ON PLU=ON L49 AND (CAPSULE# OR DRAGEE# OR GRANULE#
L52
               OR POWDER# OR SACHET# OR TABLET# OR SUSPENSION#)
L53
             29 SEA ABB=ON PLU=ON L51 OR L52
               SAVE TEMP L53 KUD523MULTI/A
L54
             O SEA ABB=ON PLU=ON L41 AND L32
L55
           719 SEA ABB=ON PLU=ON L41
L56
           474 SEA ABB=ON PLU=ON L32
            12 SEA ABB=ON PLU=ON L55 AND ((L35 OR L36))
L57
L58
             5 SEA ABB=ON PLU=ON L56 AND ((L35 OR L36))
L59
            17 SEA ABB=ON PLU=ON L57 OR L58
L60
             17 SEA ABB=ON PLU=ON L59 AND L24 .
               SAVE L60 TEMP KUD523MULTIN/A
     FILE 'STNGUIDE' ENTERED AT 10:25:38 ON 19 JUL 2007
               D QUE L34
               D QUE L45
               D QUE L60
     FILE 'HCAPLUS, WPIX, MEDLINE, BIOSIS, EMBASE, DRUGU, BIOTECHNO, PASCAL'
     ENTERED AT 10:29:00 ON 19 JUL 2007
L61
            12 DUP REM L34 L45 L60 (16 DUPLICATES REMOVED)
                    ANSWERS '1-5' FROM FILE HCAPLUS
                    ANSWER '6' FROM FILE WPIX
                    ANSWERS '7-9' FROM FILE MEDLINE
                    ANSWERS '10-12' FROM FILE BIOSIS
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D 1-12 IBIB AB 1-12

D QUE L29

D QUE L40

D QUE L53

L62

41 DUP REM L29 L40 L53 (2 DUPLICATES REMOVED)

ANSWERS '1-5' FROM FILE HCAPLUS

ANSWERS '6-14' FROM FILE WPIX

ANSWERS '15-26' FROM FILE MEDLINE

ANSWERS '27-37' FROM FILE EMBASE

ANSWERS '38-41' FROM FILE DRUGU

D L62 1-5 IBIB ED ABS HITIND

D L62 6-14 IALL ABEQ TECH ABEX

D L62 15-41 IBIB AB IND